



Face Recognition Terminal

User Manual

User Manual

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This manual is applied for face recognition terminal.

| Series | Models |
|---|---------------|
| Face Recognition Terminal (Without Fingerprint Module) | DS-K1T605M |
| | DS-K1T605E |
| Face Recognition Terminal (With Battery) | DS-K1T605MF-B |
| Face Recognition Terminal (With Fingerprint Module) | DS-K1T605MF |
| | DS-K1T605EF |

Note: In the model, F represents the product contains fingerprint module. M and E represents the product supports swiping Mifare card and EM card respectively. B represents the product contains battery.

It includes instructions on how to use the Product. The software embodied in the Product is governed by the user license agreement covering that Product.

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Support

Should you have any questions, please do not hesitate to contact your local dealer.

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the RE Directive 2014/53/EU, the EMC Directive 2014/30/EU, the RoHS

Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see:

www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a

designated collection point. For more information see: www.recyclethis.info

- (1) 이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.
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Use only power supplies listed in the user instructions:

| Model | Manufacturer | Standard |
|--------------------|--|----------|
| C2000IC12.0-24P-DE | MOSO Power Supply Technology Co., Ltd. | CEE |
| C2000IC12.0-24P-GB | MOSO Power Supply Technology Co., Ltd. | BS |
| ADS-24S-12 1224GPG | Shenzhen Honor Electronic Co., Ltd. | CEE |

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into **Warnings** and **Cautions**:

Warnings: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

|  |  |
|---|--|
| Warnings Follow these safeguards to prevent serious injury or death. | Cautions Follow these precautions to prevent potential injury or material damage. |



Warnings

- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.
- Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.

- When the product is installed on wall or ceiling, the device shall be firmly fixed.
- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)



Cautions

- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetic radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).
- Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- The device cover for indoor use shall be kept from rain and moisture.
- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- Do not aim the device at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Please use the provided glove when open up the device cover, avoid direct contact with the device cover, because the acidic sweat of the fingers may erode the surface coating of the device cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the device cover, do not use alkaline detergents.
- Please keep all wrappers after unpack them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and lead to additional costs.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

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Chapter 1 Overview

1.1 Introduction

DS-K1T605 series face recognition terminal is a kind of access control device for face recognition, which is mainly applied in security access control systems, such as logistics centers, airports, university campuses, alarm centers, dwellings and so on.

The face recognition terminal supports 1:1 or 1:N matching mode. It also supports authenticating via Mifare cards, EM cards, etc. according to different models. Communications of TCP/IP, Wi-Fi, 3G/4G/GPRS (optional), RS-485 or Wiegand are also supported. You can also import or export the data by using the USB flash drive.

1.2 Main Features

- High performance processor with deep learning algorithm
- Authenticates by swiping Mifare card or EM card according to different models
- Live face detection: Only live face can be detected and authenticated
- Max. 2000 face pictures and Max. 5000 fingerprints storage (Only models with F or FR support fingerprint function)
- Multiple authentication modes: face picture or fingerprint or card or password, fingerprint and password, fingerprint and card, face picture and fingerprint, etc.
Note: Devices with models of DS-K1T605M/E and DS-K1T605M-B do not support authenticating by fingerprint.
- 1:1 and 1:N matching by comparing face pictures and fingerprints
Note: Devices with models of DS-K1T605M/E and DS-K1T605M-B do not support authenticating by fingerprint.
- 5-inch LCD touch screen to display operation interface, advertisements, etc.
- Voice prompt and prompt sound output
- Dual-lens camera: one camera for receiving white light and the other one for receiving infrared light
- Standard definition
- Face picture recognition and face picture capture function
- Supports TCP/IP, Wi-Fi, 3G/4G network (optional) communication, RS-485 communication and Wiegand communication
- Switches between input and output when communicating by Wiegand protocol; supports output card No. via Wiegand communication
- Connects to one external card reader via RS-485 communication
- Connects to external access controller or Wiegand card reader via Wiegand communication

- Connects to secure door control unit to avoid the door opening when the terminal is destroyed
 - Supports importing and exporting data via USB flash drive
 - Stand-alone operation
 - Supports anti-passback, multiple authentications, and open door with first card
 - Remotely controls via the iVMS-4200 client software
 - Power supply by lithium battery
- Note:** Only devices with models of DS-K1T605M-B support the function.
- Hardware initialization

Chapter 2 Appearance

Refer to the following contents for detailed information of the face recognition terminal:

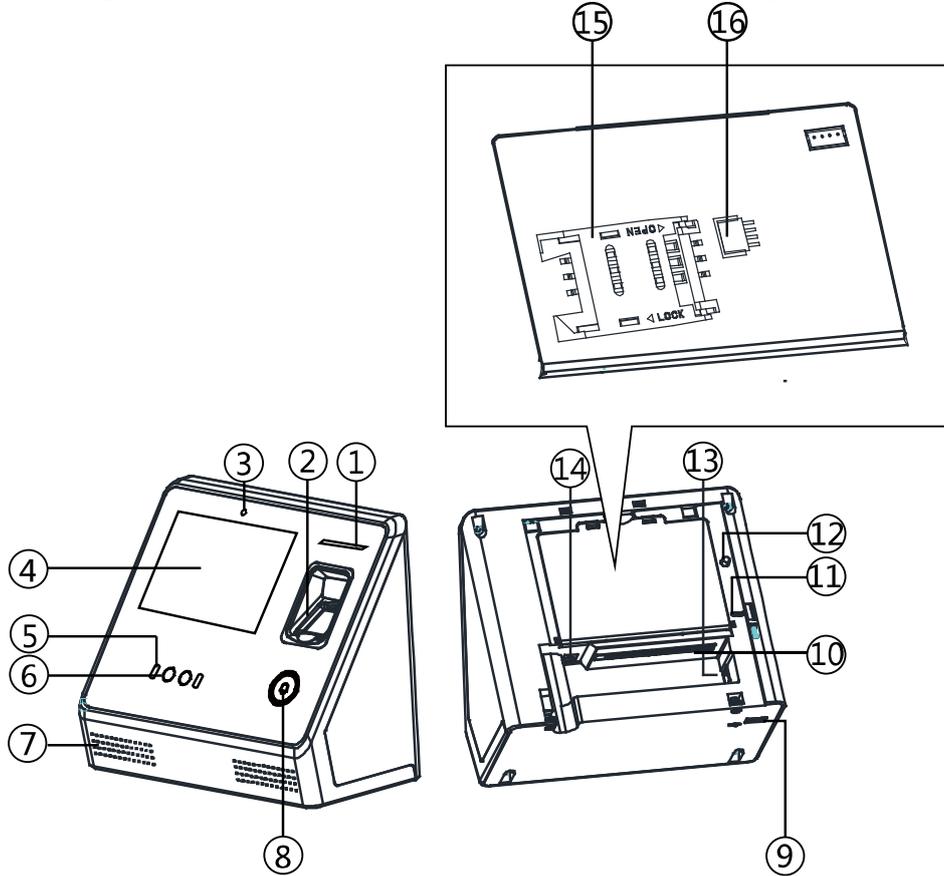


Table 1-1 Description of Face Recognition Terminal

| No. | Name | Description |
|-----|--|---|
| 1 | Indicator | Solid Red: Standby. |
| | | Flashing Red: Authentication failed. |
| | | Solid Green: Authentication completed. |
| | | Flashing Green: Authenticating (combined). |
| 2 | Fingerprint Module + Card Swiping Area | Scan fingerprint or swipe card. Note: Only the device with the fingerprint module contains this part. |
| | Card Swiping Area | Swipe card within this area. Note: Only the device without the fingerprint module |

| | | |
|----|--------------------------------|--|
| | | contains this part. |
| 3 | Sensor | Detect the illumination intensity. When the environment is too dark, the device will enable the supplement light automatically. |
| 4 | Display Screen | 5-inch LCD touch screen with the resolution of 800*480. |
| 5 | Supplement Light | Support white light and IR light. Maximum distance for supplement light: 1m. |
| 6 | Camera | Support bi-spectrum. |
| 7 | Loudspeaker | The part that the sound comes from. |
| 8 | Doorbell Button | Hold the button for 3s to power on and the device indicator will light up. After setting the power button function, hold the doorbell button for 3s to power off. Note: For details about setting the power button function, see <i>5.3.2 System Settings</i> . |
| 9 | USB Interface | Plug in the USB flash drive and you can import or export the data. |
| 10 | Wiring Terminals | Connect to other external devices. |
| 11 | Reset | While the device is powering on, hold the reset button and the device will restore to the factory settings. |
| 12 | Tamper | When the tamper button is pressed down and the tamper-proof function is enabled. If the device is pulled down, the alarm will be triggered. You should input the device activation password to dismiss the alarm. |
| 13 | Network Interface | Connect to Ethernet. |
| 14 | Power Interface | Connect to power supply. |
| 15 | Micro SIM Card Slot (Optional) | Insert SIM card. |
| 16 | Battery Connector | Connect to battery. |

Chapter 3 Installation

Installation Environment:

- Install the device indoors, at least 2 meters away from the light, and at least 3 meters away from the window or the door.
- Avoid backlight, direct and indirect sunlight.
- Make sure the environment illumination is more than 100Lux.

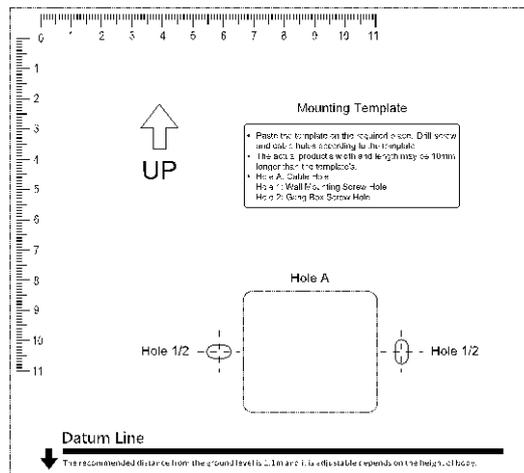
Note: For details about installation environment, see *Appendix D Tips for Installation Environment*.

Installation Types: Wall mounting and base mounting.

3.1 Installing with Gang Box

Before you start:

According to the datum on the mounting template, stick the mounting template on the wall or other surface, 1.1 meters higher than the ground.



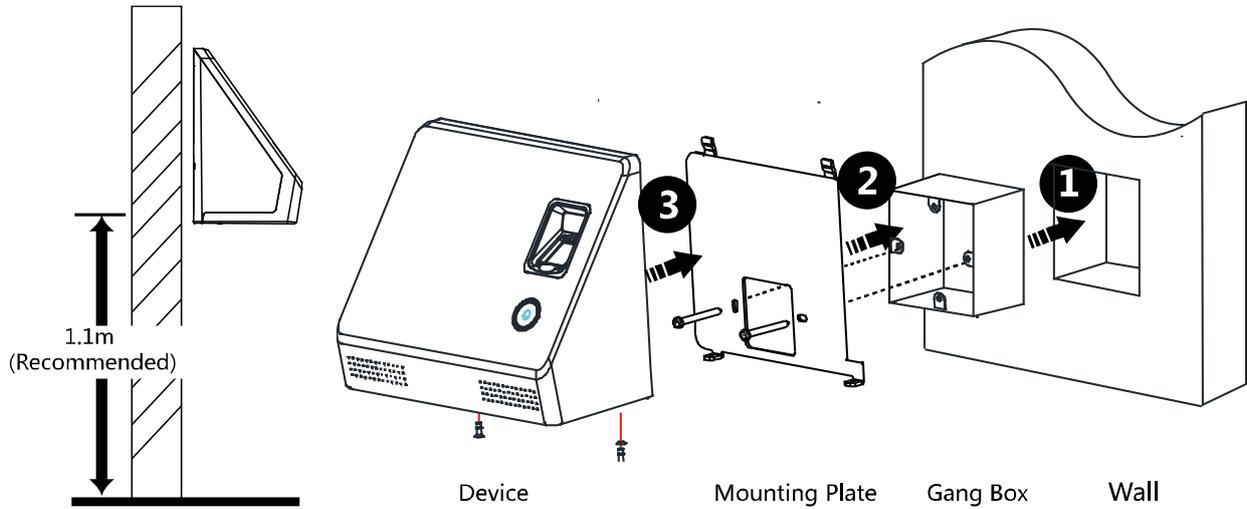
Steps:

1. Drill holes on the wall or other surface according to the mounting template and install the gang box (80mm×80mm).
2. Use two supplied screws to secure the mounting plate on the gang box.
3. Remove the two screws at the bottom of the device.
4. Align the terminal with the mounting plate and buckle them together.
5. Use a hex wrench to fasten the two screws at the bottom.

Notes:

- The installation height here is the recommended height. You can change it according to your actual needs.
- You can also install the device on the wall or other places without the gang box. For details, see *3.2 Installing without Gang Box*.

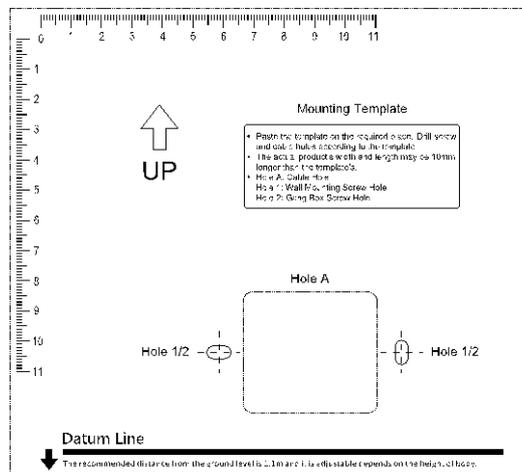
- For easy installation, drill holes on mounting surface according to the supplied mounting template.



3.2 Installing without Gang Box

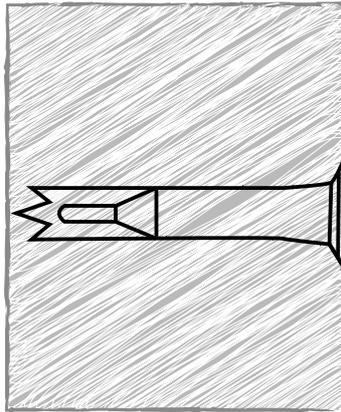
Before you start:

According to the baseline on the mounting template, stick the mounting template on the wall or other surface, 1.1 meters higher than the ground.

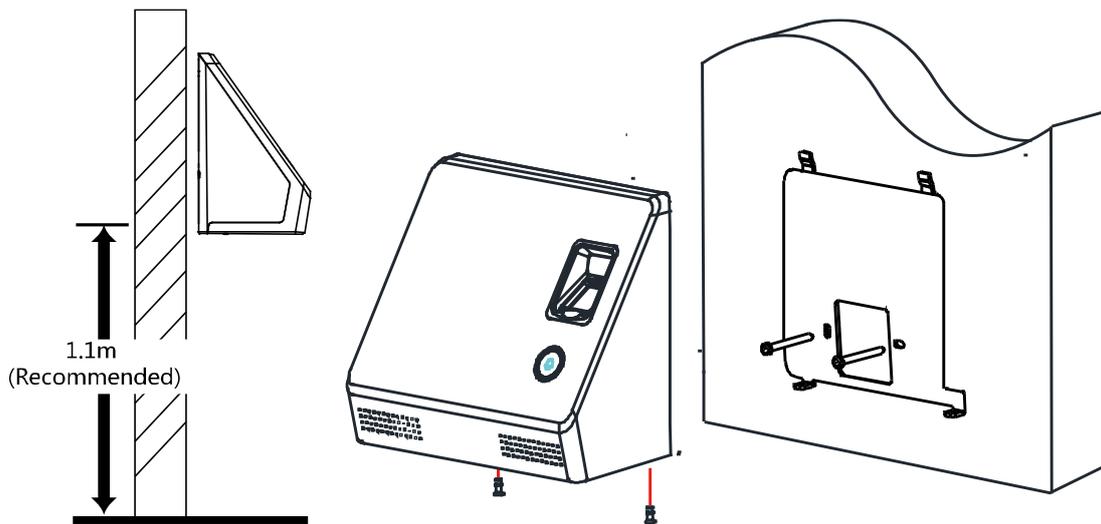


Steps:

1. Drill holes on the wall or other surface according to the mounting template.
2. Insert the screw sockets of the setscrews in the drilled holes.



3. Align the two holes to the mounting plate with the drilled holes.
4. Fix and fasten the screws in the sockets on the wall or other surface.
5. Remove the two screws at the bottom of the device.
6. Align the terminal with the mounting plate and buckle them together.
7. Use a hex wrench to fasten the two screws at the bottom.

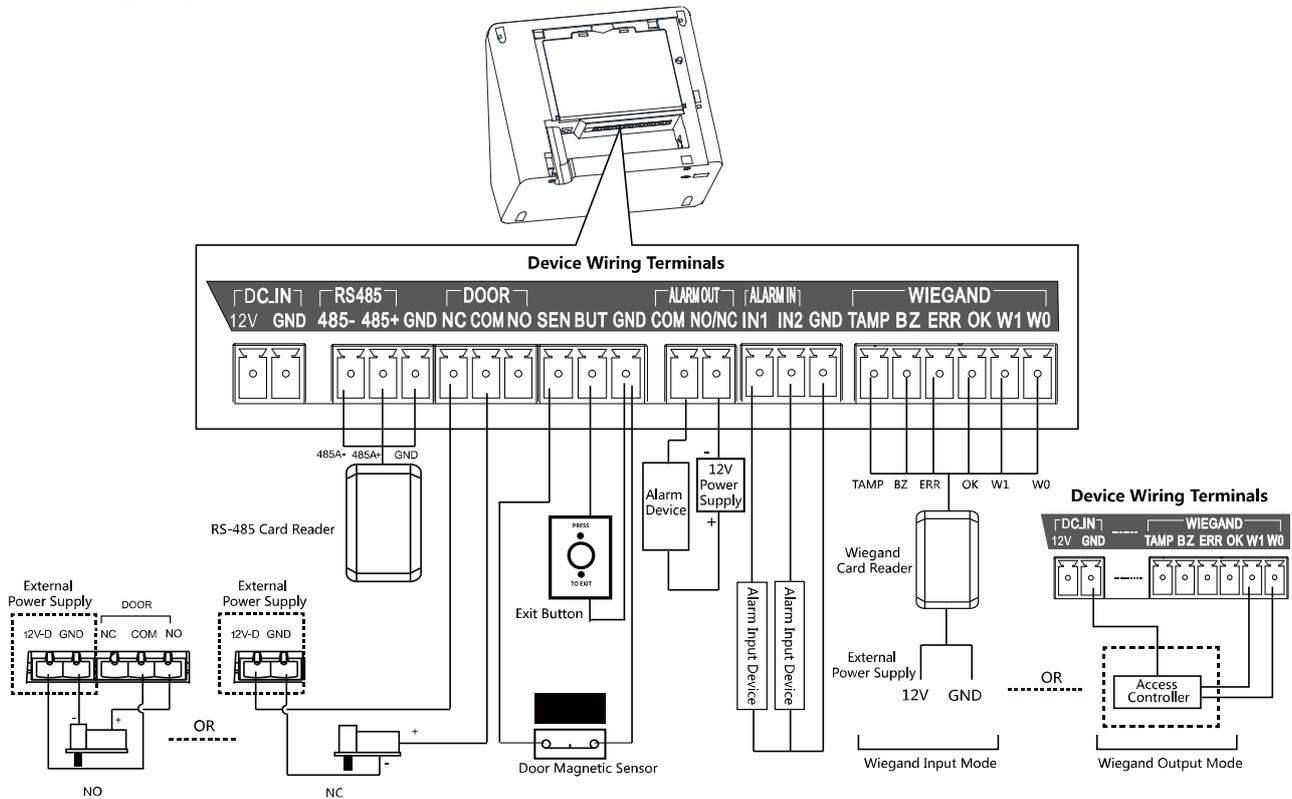


Chapter 4 Terminal Connection

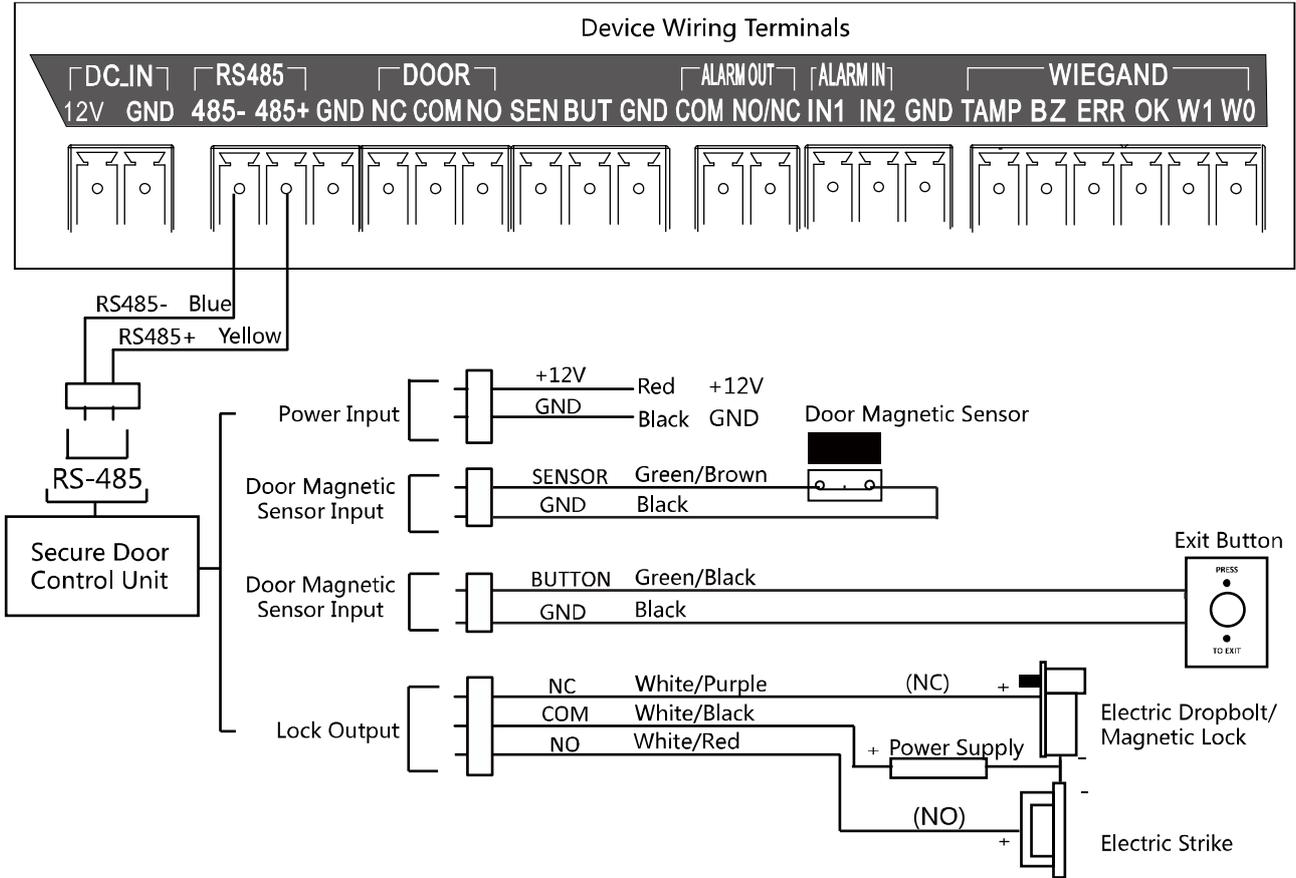
You can connect the RS-485 terminal with the RS-485 card reader, connect the DOOR terminal with the door lock, connect the SEN/BUT/GND terminal with the exit button, connect the ALARM OUT/ALARM IN terminal with the alarm output/input devices, and connect the WIEGAND terminal with the Wiegand card reader or the access controller. You can also connect the DS_IN can with the power supply.

If connect the WIEGAND terminal with the access controller, the face recognition terminal can transmit the authentication information to the access controller and the access controller can judge whether to open the door or not.

The wiring diagram is as follows:



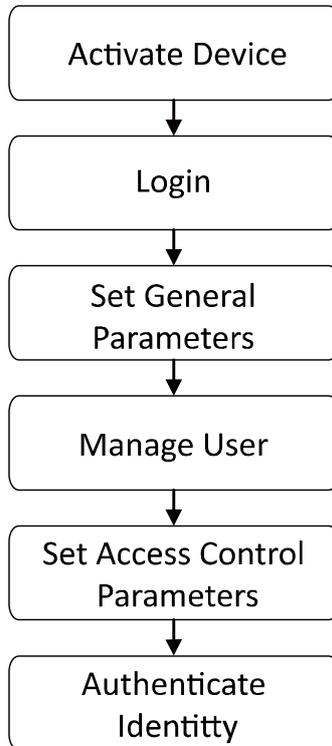
You can also connect the terminal with the secure door control unit. The wiring diagram is as follows:



Note: The secure door control unit should connect to an external power supply separately.

Chapter 5 Basic Operation

The suggested working flow is as follows:



5.1 Activate Device

Purpose:

You are required to activate the terminal first before using it.

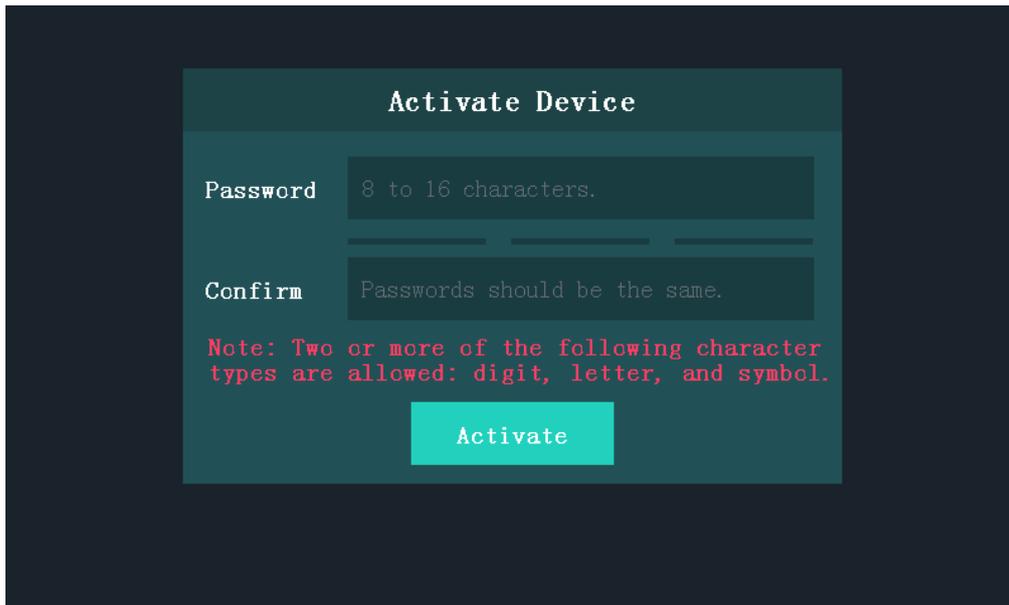
Activation via device, activation via SADP, and activation via client software are supported.

The default values of the control terminal are as follows.

- The default IP address: 192.0.0.64.
- The default port No.: 8000.
- The default user name: admin.

5.1.1 Activating via Device

If the device is not activated, you can activate the device after it is powered on.



Steps:

1. Tap the Password field and create a password.
2. Tap the Confirm field and input the password again.
3. Tap **Activate** and the device will be activated.



STRONG PASSWORD RECOMMENDED– *We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.*

5.1.2 Activating via SADP Software

Purpose:

SADP software is used for detecting the online device, activating the device, and resetting the password.

Get the SADP software from the supplied disk or the official website, and install the SADP according to the prompts. Follow the steps to activate the device.

Steps:

1. Run the SADP software to search the online devices.
2. Check the device status from the device list, and select an inactive device.

Total number of online devices: **5** Export Refresh

| | Subnet Mask | MAC Address | Encoding Channel(s) | DSP Version | Start Time | IPv6 Address | IPv6 GateWay | IP |
|-----------------|---------------|-------------------|---------------------|--------------------|---------------------|------------------|--------------|----|
| XXX-XXX-XXX | 255.255.255.0 | 00-40-4f-6a-7b-13 | 0 | V1.0, build 160... | 2016-06-13 10:32:42 | fe80::240:4ff... | :: | 64 |
| 1620160107CC... | 255.255.255.0 | 00-40-43-2f-7c-fb | 16 | V5.0, build 160... | 2016-06-13 09:23:50 | fe80::240:43f... | :: | 64 |
| XXX-XXX-XXX | 255.255.255.0 | c0-56-e3-b3-bc-c0 | 0 | V7.4 build 160... | 2016-06-06 14:48:25 | :: | :: | |
| 20140705AACH... | 255.255.255.0 | 8c-e7-48-74-67-98 | 7 | V5.0, build 140... | 2016-06-13 09:27:11 | fe80::8ee7:48... | :: | |

Modify Network Parameters

Enable DHCP

Device Serial No.:

IP Address:

Port:

Subnet Mask:

Gateway:

IPv6 Address:

IPv6 Gateway:

IPv6 Prefix Length:

HTTP Port:

Security Verification:

Admin Password:

Modify

[Forgot Password](#)

3. Create a password in the password field, and confirm the password.



STRONG PASSWORD RECOMMENDED– *We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.*

4. Click **Activate** to activate the device.
5. Check the activated device. You can change the device IP address to the same network segment with your computer by either editing the IP address manually or checking the Enable DHCP checkbox.

Modify Network Parameters

Enable DHCP

Device Serial No.:

IP Address:

Port:

Subnet Mask:

Gateway:

IPv6 Address:

IPv6 Gateway:

IPv6 Prefix Length:

HTTP Port:

Security Verification

Admin Password:

Modify

[Forgot Password](#)

6. Input the password and click **Modify** to save the IP address.

5.1.3 Activating via Client Software

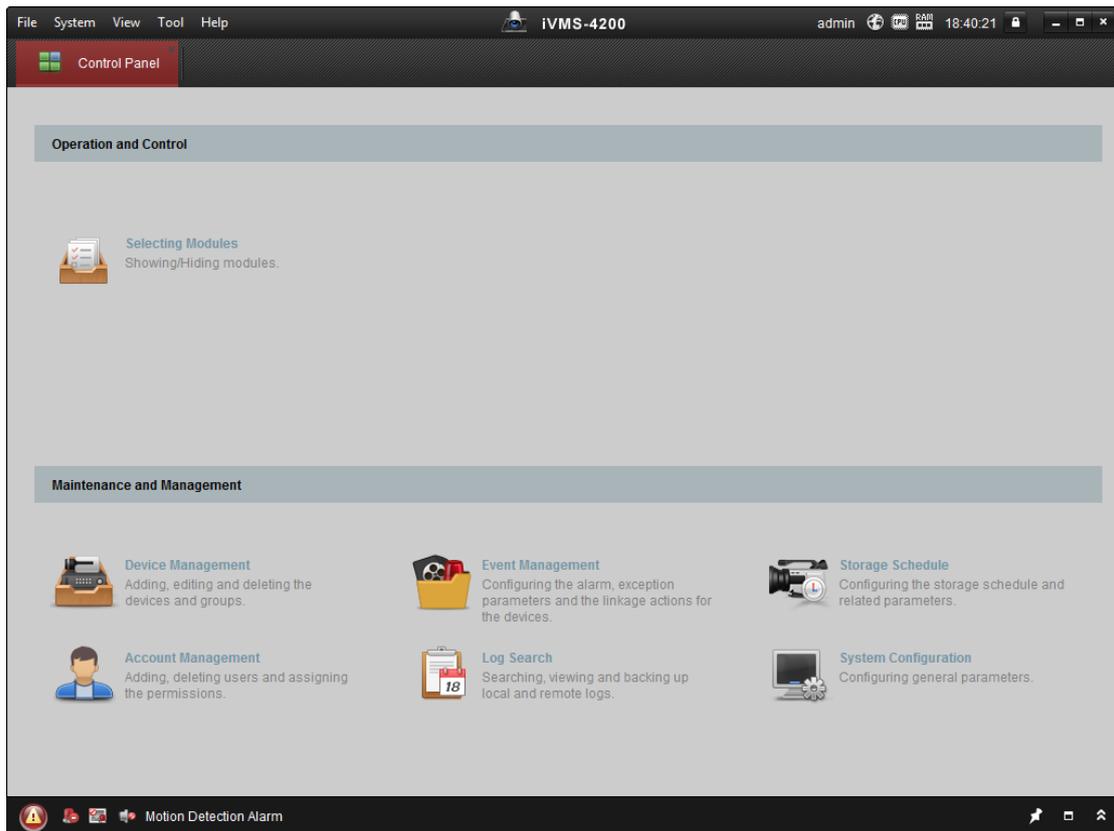
Purpose:

The client software is versatile video management software for multiple kinds of devices.

Get the client software from the supplied disk or the official website, and install the software according to the prompts. Follow the steps to activate the control panel.

Steps:

1. Run the client software and the control panel of the software pops up, as shown in the figure below.



2. Click **Device Management** to enter the Device Management interface.
3. Check the device status from the device list, and select an inactive device.

| IP | Device Type | Firmware Version | Security | Server Port | Device Serial No. | Start Time |
|--------------|-------------|------------------|----------|-------------|-------------------|------------|
| 192.0.0.64 | | | Active | 8000 | | 2017-01 |
| 192.168.1.64 | | | Inactive | 8000 | | 2017-01 |

4. Check the device status from the device list, and select an inactive device.
5. Click **Activate** to pop up the Activation interface.
6. In the pop-up window, create a password in the password field, and confirm the password.

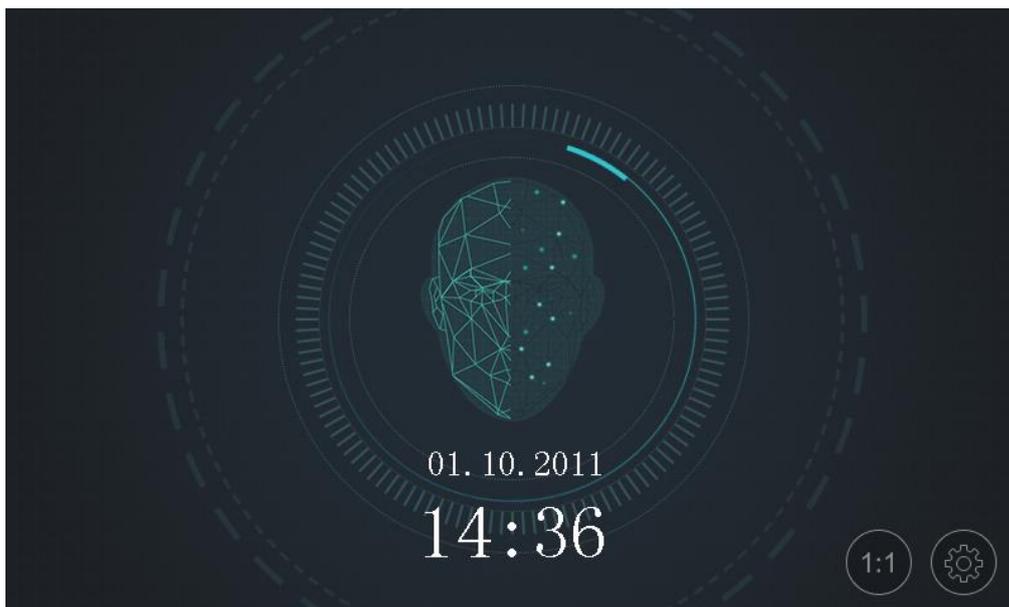


STRONG PASSWORD RECOMMENDED— We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.



7. Click **OK** button to start activation.
8. Click the **Modify Netinfor** button to pop up the Network Parameter Modification interface.
9. Change the device IP address to the same network segment as your computer by modifying the IP address manually.
10. Input the password and click **OK** to save the settings.

After activation, you will enter the initial page:



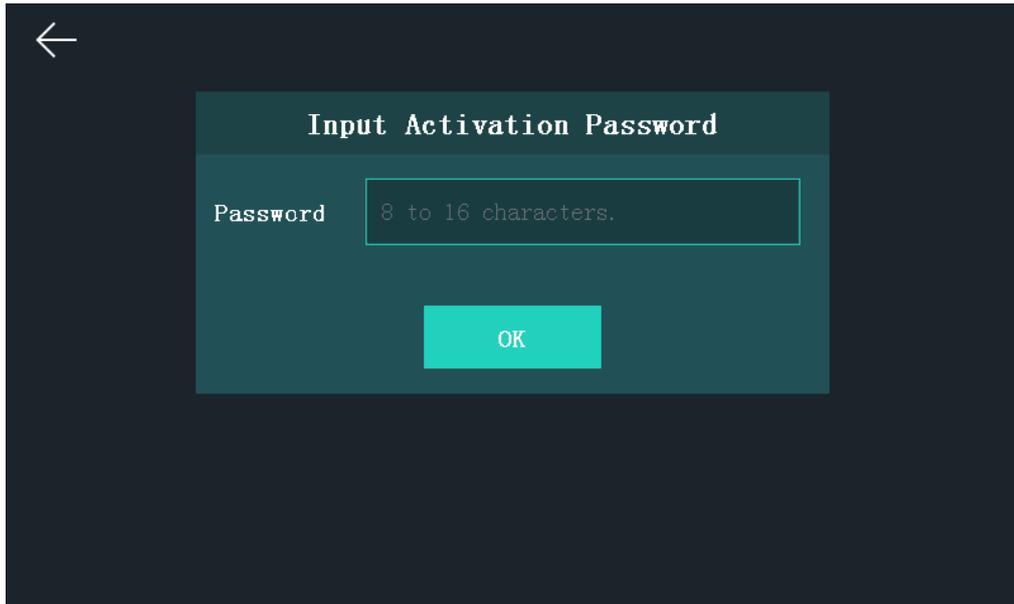
5.2 Login

Option 1

If it is the first time to login, follow the steps below to login.

Steps:

1. Tap the settings icon at the lower right corner of the initial page to enter the Input Password page.



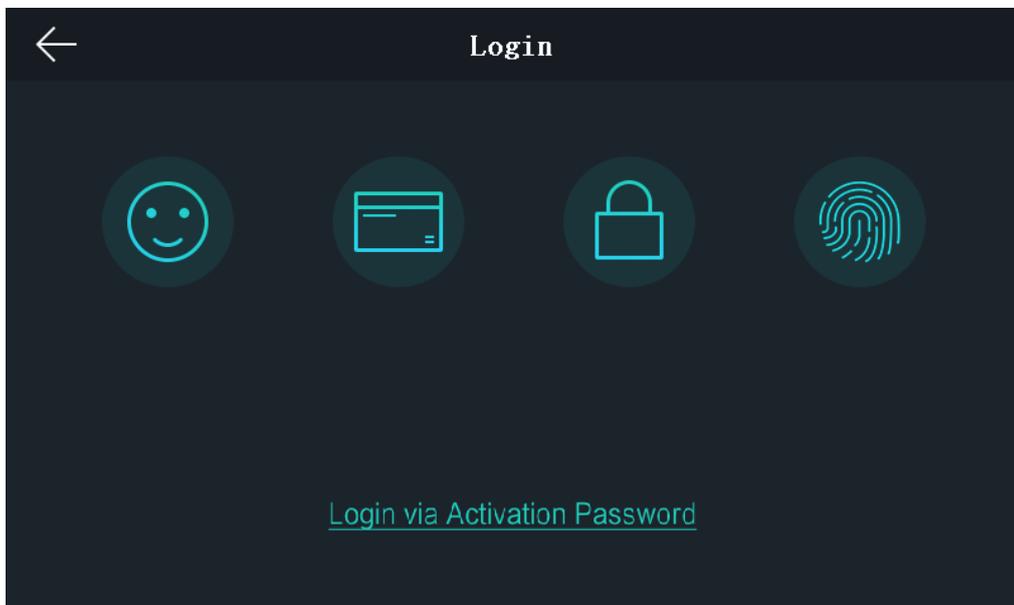
2. Tap the Password field and input the device activation password.
3. Tap **OK** to enter the initial page.

Option 2

If you have set the administrator on the User Management page, follow the steps below to login.

Steps:

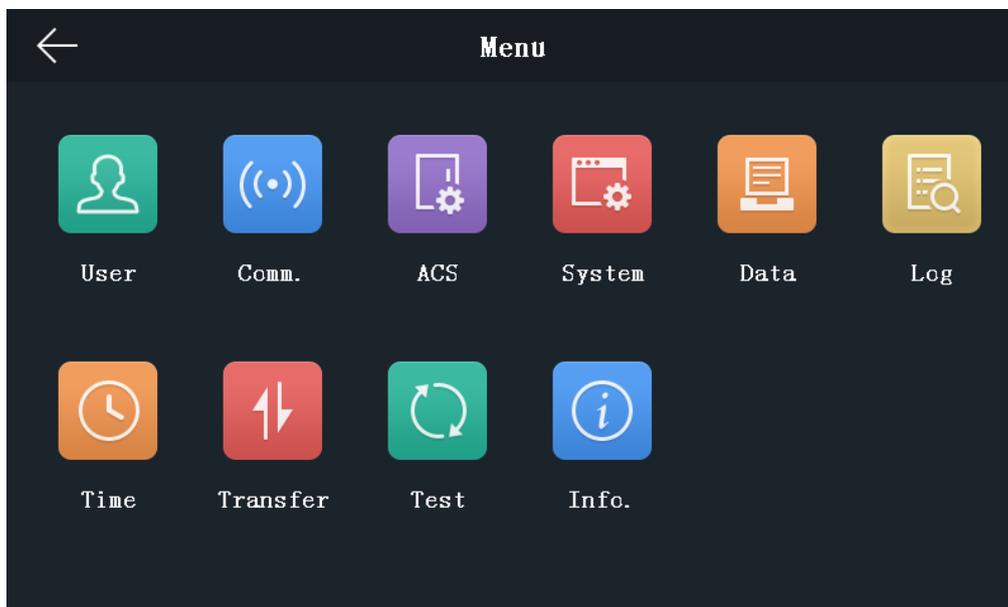
1. Tap the settings icon at the lower right corner of the initial page to enter the Login page.
2. Select the login type.



3. Authenticate permissions to enter the home page.
Tap one of the four authentication modes on the upper side of the page and authenticate permissions.

Or tap **Login via Activation Password** and input the device activation password to enter the home page.

The home page is shown as below:



Notes:

- The device will be locked for 30 minutes after 5 failed password attempts.
- The supported authentication modes are as follows:
Face picture or fingerprint, or card or password, fingerprint and password, fingerprint and card, face picture and password, face picture and card, card and password, fingerprint, face picture, employee ID and password, card, fingerprint or card, fingerprint or password, card or password, employee ID and fingerprint, fingerprint and card and password, employee ID and fingerprint and password, face picture and fingerprint and card, face picture and password and fingerprint, employee ID and face picture.
- The device with the model of DS-K1T605E/M or DS-K1T605M-B does not support the fingerprint authentication mode.
- For details about setting the administrator authentication mode, see *5.4.1 Adding User*.

5.3 General Parameters Settings

5.3.1 Communication Settings

Purpose:

You can set the network parameters, the Wi-Fi parameter, the RS-485 parameters, and the Wiegand parameters on the communication settings page.

Tap **Comm.** (Communication Settings) on the Home page to enter the Communication Settings page.

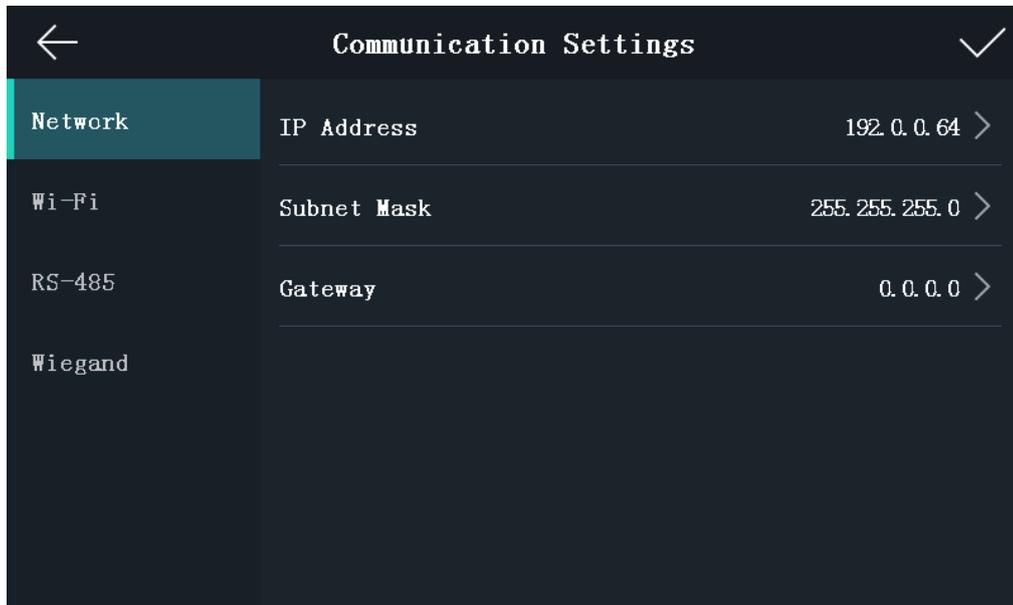
Setting Network Parameters

Purpose:

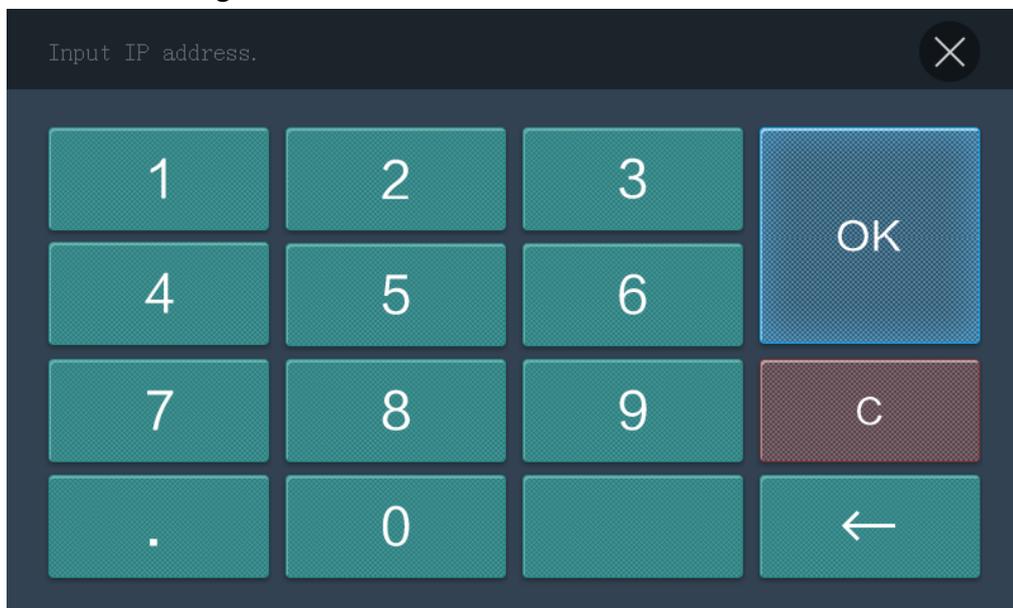
You can set the device network parameters, including the IP address, the subnet mask, and the gateway.

Steps:

1. On the Communication Settings page, tap **Network** to enter the Network tab.



2. Tap **IP Address**, **Subnet Mask**, or **Gateway** and input the parameters.
3. Tap **OK** to save the settings.



Note: The device's IP address and the computer IP address should be in the same LAN.

4. Tap to save the network parameters and go back to the Home page.

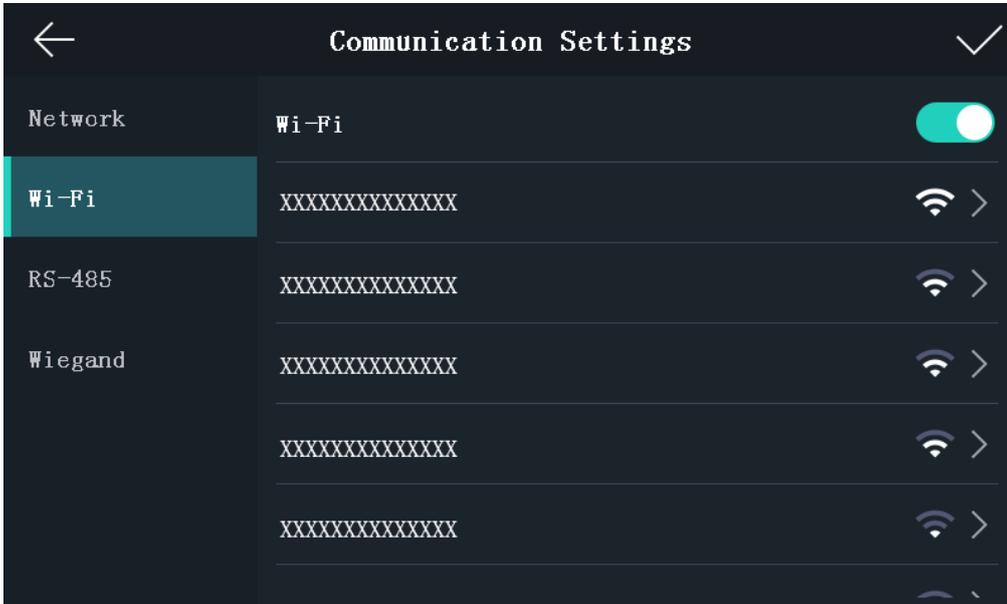
Setting Wi-Fi Parameters

Purpose:

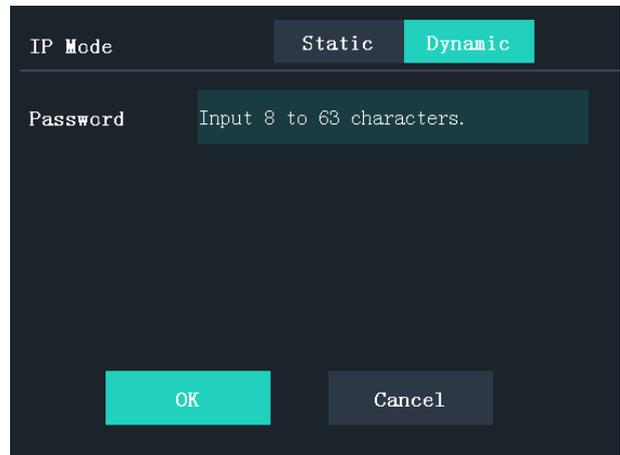
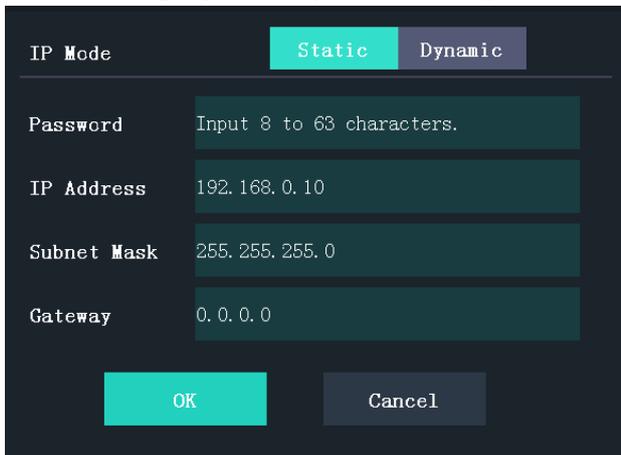
You can enable the Wi-Fi function and set the Wi-Fi related parameters.

Steps:

1. On the Communication Settings page, tap **Wi-Fi** to enter the Wi-Fi tab.



2. Tap to enable the Wi-Fi function.
The icon will turn to and all searched Wi-Fi will be listed in the Wi-Fi list.
3. Select a Wi-Fi in the list to enter the Wi-Fi parameters settings page.
4. Select an IP mode.
If selecting **Static**, you should input the Wi-Fi password, IP address, subnet mask and gateway.
If selecting **Dynamic**, you should input the Wi-Fi password.



Note: Numbers, upper case letters, lower case letters, and special characters are allowed in the Wi-Fi password.

5. Tap **OK** to save the settings and go back to the Wi-Fi tab.
6. Tap to save the Wi-Fi parameters and go back to the Home page.

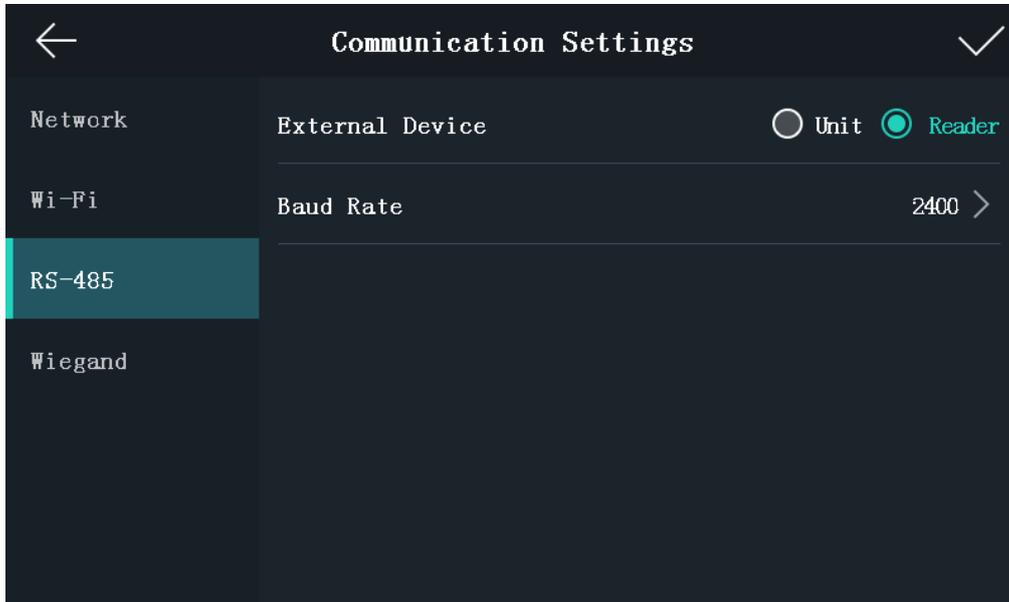
Setting RS-485 Parameters

Purpose:

The face recognition terminal can connect external secure door control unit or card reader via the RS-485 terminal.

Steps:

1. On the Communication Settings page, tap **RS-485** to enter the RS-485 tab.



2. Select an external device according to your actual needs.
Note: Unit represents the secure door control unit and Reader represents the card reader.
3. Tap **Baud Rate** to enter the Baud Rate page.
4. Select a baud rate for connecting external device via RS-485 protocol.
5. Tap to save the selected baud rate and go back to the RS-485 tab.
6. Tap to save the RS-485 parameters and go back to the Home page.
Note: If you change the external device, and after you save the device parameters, the device will reboot automatically.

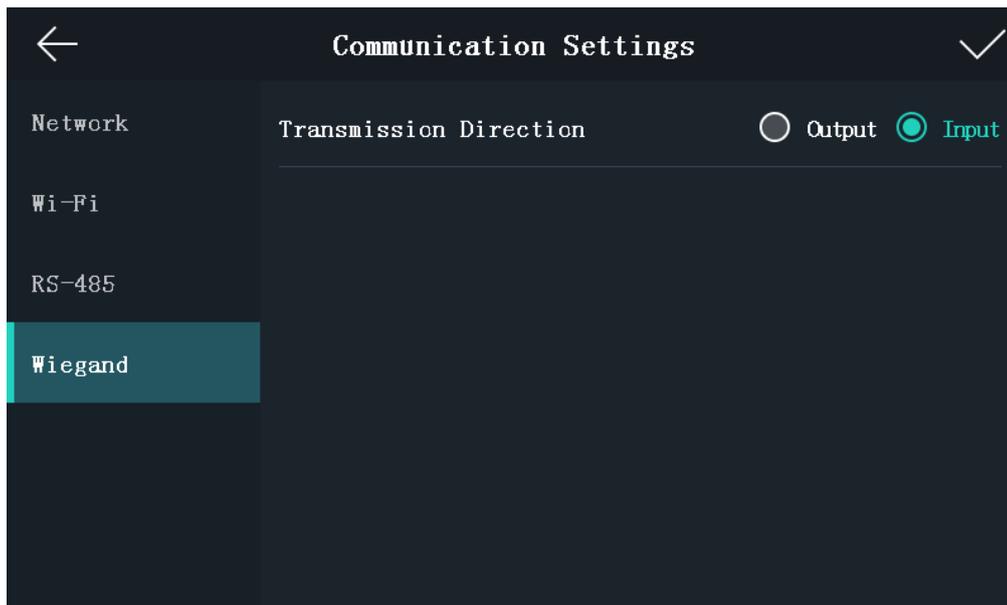
Setting Wiegand Parameters

Purpose:

You can set the Wiegand transmission direction and the Wiegand mode.

Steps:

1. On the Communication Settings page, tap **Wiegand** to enter the Wiegand tab.



2. Select the transmission direction and its mode.

Transmission Direction:

- Output: A face recognition terminal can connect an external access controller. And the two devices will transmit the card No. via Wiegand 26 or Wiegand 34 mode.
- Input: A face recognition terminal can connect a Wiegand card reader. And there is no need to set the Wiegand mode.

Mode:

You can select either Wiegand 26 or Wiegand 34. By default, the system selects Wiegand 34.

3. Tap to save the Wiegand parameters and go back to the Home page.

Note: If you change the Wiegand mode and save the parameters, the device will reboot automatically.

5.3.2 System Settings

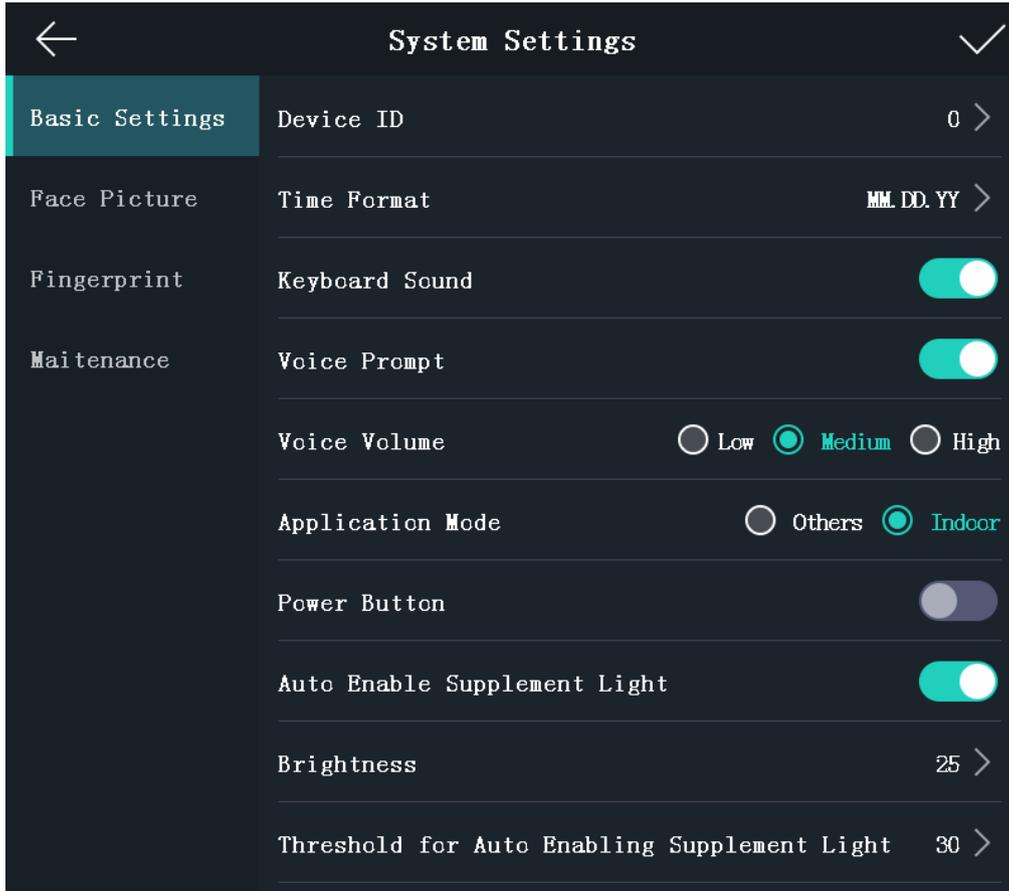
Purpose:

On the System Settings page, you can set the system basic parameters, set the face picture parameters, and upgrade the firmware.

On the Home page, tap **System** (System Settings) to enter the System Settings page.

Setting Basic Parameters**Purpose:**

You can set the device ID, time format, keyboard sound, voice prompt, voice volume, application mode, power button, auto enable supplement light, brightness, and Threshold for Auto Enabling Supplement Light.



| Parameter | Description |
|-------------------------|--|
| Device ID | Set the face recognition terminal's device ID No. The device ID is the DIP address for the communication between the device and the access controller if the device should connect to an access controller via RS-485 protocol. |
| Time Format | You can select one of the following formats: MM/DD/YYYY, MM.DD.YYYY, DD-MM-YYYY, DD/MM/YYYY, DD.MM.YYYY, YYYYMMDD, YY-MM-DD, YY/MM/DD, and MM-DD-YYYY. |
| Keyboard Sound | Tap  or  to disable or enable the keyboard sound. |
| Voice Prompt | Tap  or  to disable or enable the voice prompt. |
| Voice Volume | You can adjust the voice volume to Low, Medium or High. |
| Application Mode | You can select either others or indoor according to actual environment. |
| Power Button | Namely, it is the doorbell button. Tap  or  to disable or enable the function If enabling the function, hold the doorbell button for 3s to power off. If disabling the function, the doorbell button will not contain the powering off function. Notes: |

| | |
|---|---|
| | <ul style="list-style-type: none"> ● Only the device containing –B in the model supports the function. ● If you power off the device via this button, you should hold the button to power on for the next time. |
| Auto Enable Supplement Light | <p>If enabling the function, when it is too dark, the supplement light will be turned on automatically.</p> <p>If disabling the function, the supplement light will be on all the time.</p> |
| Brightness | <p>You can set the supplement light’s brightness. The brightness ranges from 0 to 100.</p> <p>0 refers to turning off the light. 1 refers to the darkest light, and 100 refers to the brightest light.</p> |
| Threshold for Auto Enabling Supplement Light | <p>When the auto enable supplement light function is enabled, you can set the illumination threshold. When the illumination is lower than the configured threshold, the supplement light will turned on automatically.</p> |

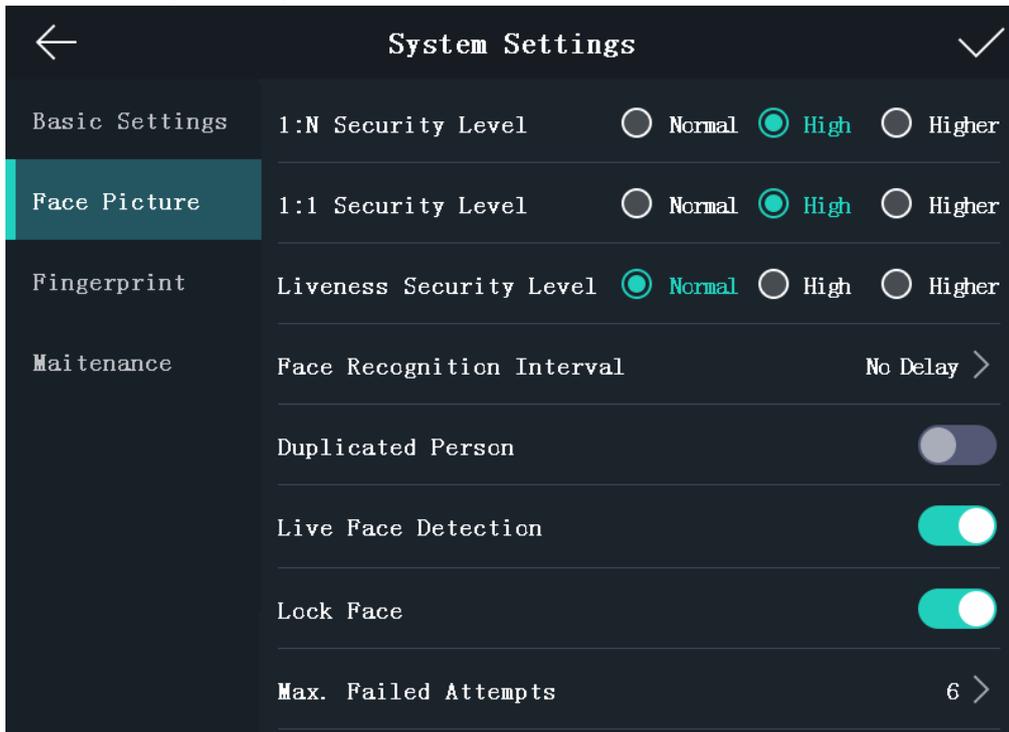
Notes:

- The device ID should be numbers and should range from 0 to 255.
- If the device is not activated, the power button is enabled by default; after the device is activated, the power button function will be disabled. You should enable the function manually.
- We suggest you to disable the function in the scenario of access control system.

Setting Face Picture Parameters

Purpose:

You can set the face picture 1:N security level, 1:1 security level, liveness security level, face recognition interval, duplicated person, live face detection, lock face, and Max. failed attempts.



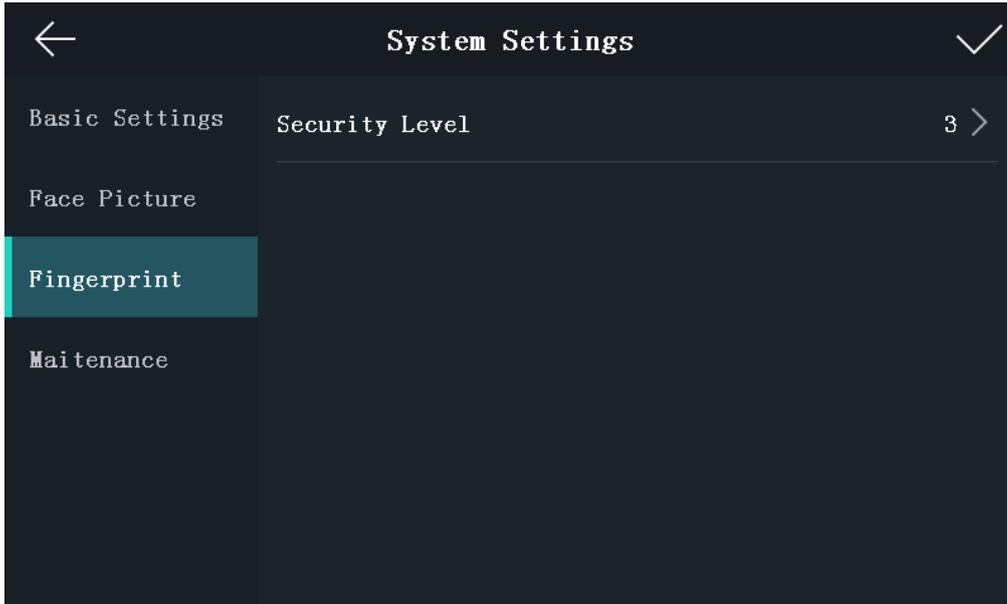
| Parameter | Description |
|----------------------------------|---|
| 1:N Security Level | Set the matching security level when authenticating via 1:N matching mode. |
| 1:1 Security Level | Set the matching security level when authenticating via 1:1 matching mode. |
| Liveness Security Level | After enabling Live Face Detection function, you can set the matching security level when performing live face authentication. |
| Face Recognition Interval | The time interval between two continuous face recognitions when authenticating. By default, it is 2s. Note: You can input the number from 1 to 10 or 255. 255 refers to infinite. |
| Duplicated Person | If enabling the function, the system will compare the adding face picture with all pictures in the database when adding a user. If the person already exists in the database, the system will remind you. |
| Live Face Detection | Enable or disable the live face detection function. If enabling the function, the device can recognize whether the person is a live one or not. |
| Lock Face | After enabling the Live Face Detection function, the system will lock the user's face for 5 minutes if the live face detection is failed for more than the configured attempts. The same user cannot authenticate via the fake face within 5 minutes. Within the 5 minutes, the user can authenticate via the real face twice continuously to unlock. |
| Max. Failed Attempts | Set the maximum live face detection failed attempts. The system will lock the user's face for 5 minutes if the live face detection is failed for more than the configured attempts. The same user cannot authenticate via the fake face within 5 minutes. Within the 5 minutes, the user can authenticate via the real face twice continuously to unlock. Available times: 6 to 15 |

Setting Fingerprint Parameters

Purpose:

You can set the fingerprint security level in this section.

Note: Devices with models of DS-K1T605M/E and DS-K1T605M-B do not support authenticating by fingerprint.



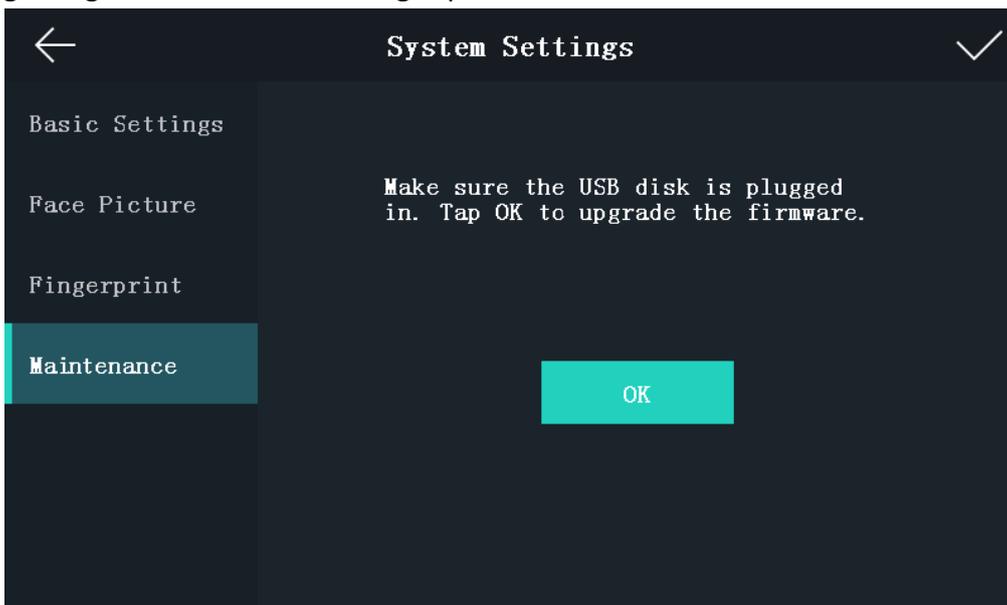
| Parameter | Description |
|-------------------------|---|
| Security Level : | You can set the fingerprint security level. The higher is the security level, the lower is the false acceptance rate (FAR). The higher is the security level, the higher is the false rejection rate (FRR). |

Upgrading Firmware

On the Maintenance page, plug in the USB flash drive and tap **OK**. The device will automatically read the upgrading file and upgrade the firmware.

Note:

- The upgrading file should be in the root directory.
- The upgrading file name should be digicap.dav.



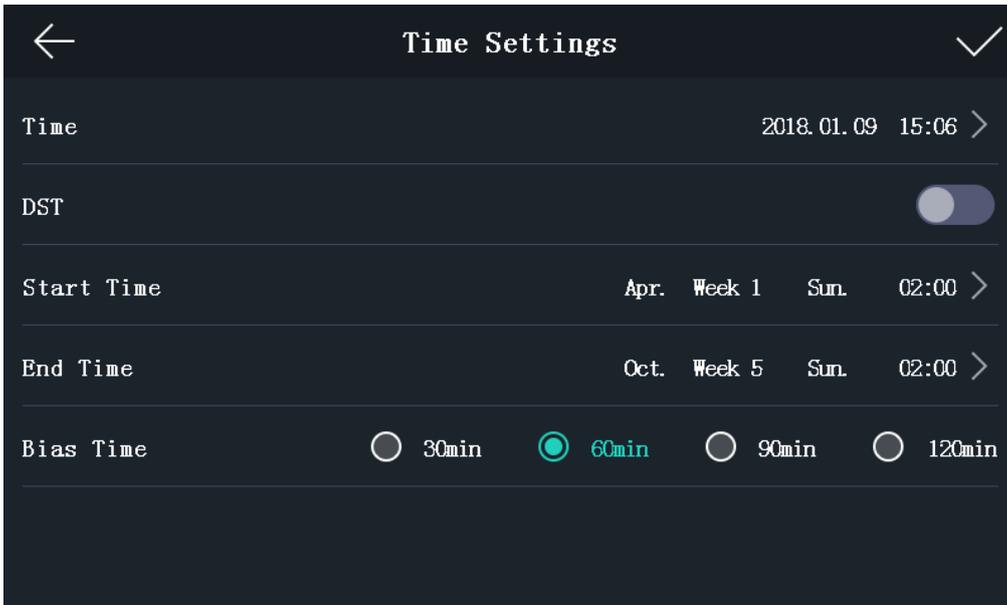
5.3.3 Setting Time

Purpose:

You can set the device time and the DST in this section.

Steps:

1. Tap **Time** (Time Settings) on the Home page to enter the Time Settings page.



2. Edit the time parameters.

| Parameter | Description |
|--------------|--|
| Time: | Set the time which will be displayed on the device screen. |
| DST: | Enable or disable the DST function. If enabling the DST function, you can set the DST start time, end time, and the bias time. Start Time: Set the DST start time. End Time: Set the DST end time. Bias Time: Set the DST bias time when the DST starts. |

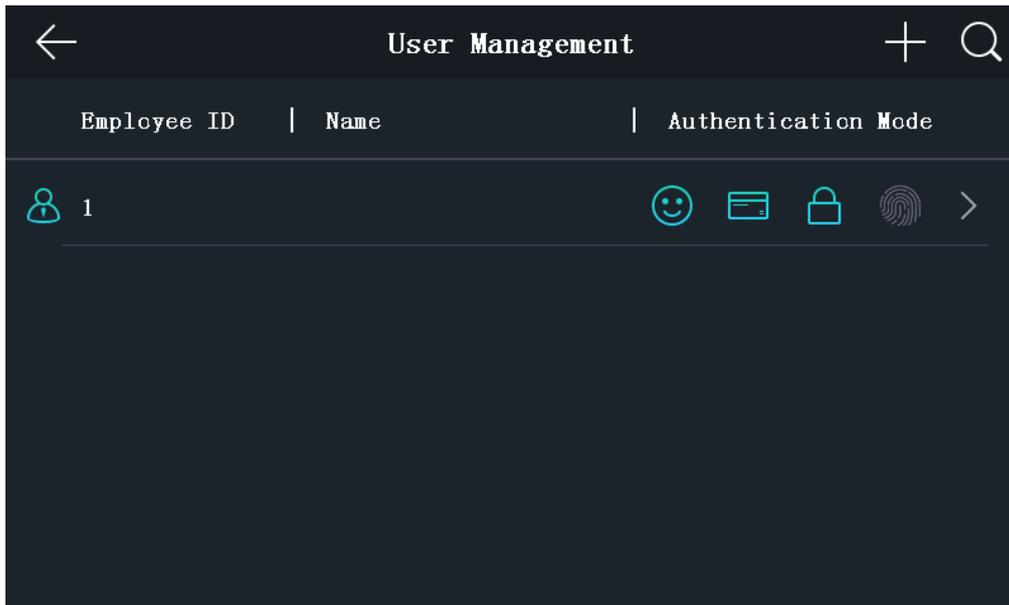
3. Tap to save the settings and go back to the Home page.

5.4 User Management

Purpose:

On the user management interface, you can add, edit, delete and search the user.

Tap **User** on the Home page to enter the User Management page.



5.4.1 Adding User

Purpose:

On the Add User page, you can add users, including the employee No., name, card No. You can also link the fingerprint, the face picture to the user, or set password, authentication mode, schedule template, administrator permission for the user.

Notes:

- Up to 5000 users can be added.
- Devices with models of DS-K1T605M/E and DS-K1T605M-B do not support authenticating by fingerprint.

Steps:

1. On the User Management page, tap + to enter the Add User page.

2. Tap the **Employee ID**. field and edit the employee ID.

Notes:

The employee ID should be between 1 and 99999999. The employee ID should not start with 0 and should not be duplicated.

3. Tap the **Name** field and input the user name on the soft keyboard.

Notes:

- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
- Up to 32 characters are allowed in the user name.

4. Tap the **Card** field and input the card No.

Option 1: Input the card No. manually.

Option2: Swipe the card over the card swiping area to get the card No.

Notes:

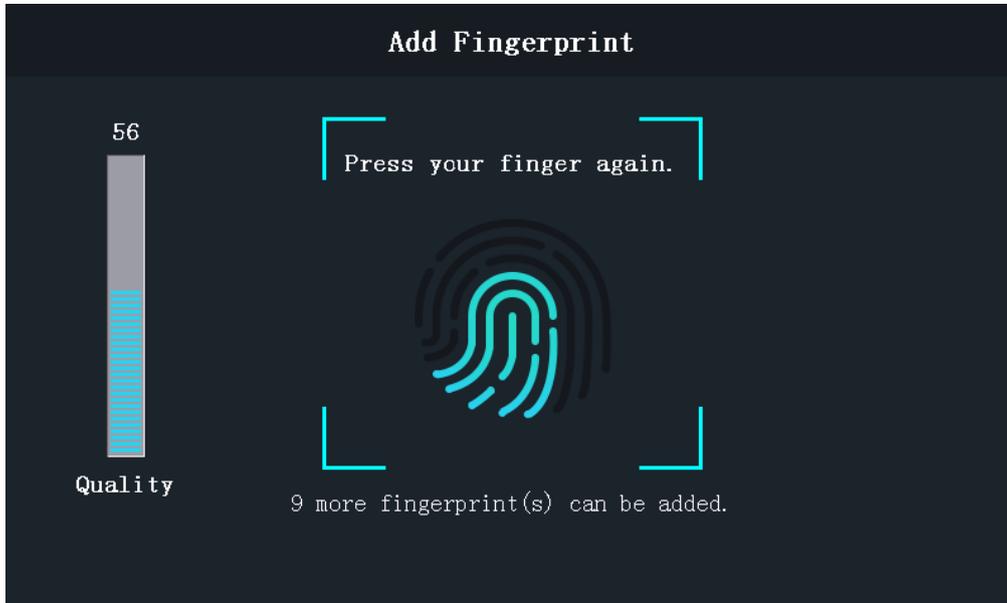
- The card No. cannot be empty.
- Up to 20 characters are allowed in the card No.
- By default, the card No. contains 10 characters. The system will use 0 to supplement the 10-character-card No. For example, 5 and 0000000005 are two different card No.
- The card No. cannot be duplicated.

5. Tap the **Password** field and create a password and confirm the password.

Note:

- Only numbers are allowed in the password.
- Up to 8 characters are allowed in the password.

6. Tap the **Fingerprint** field to enter the Add Fingerprint page.



Follow the steps below to add fingerprint.

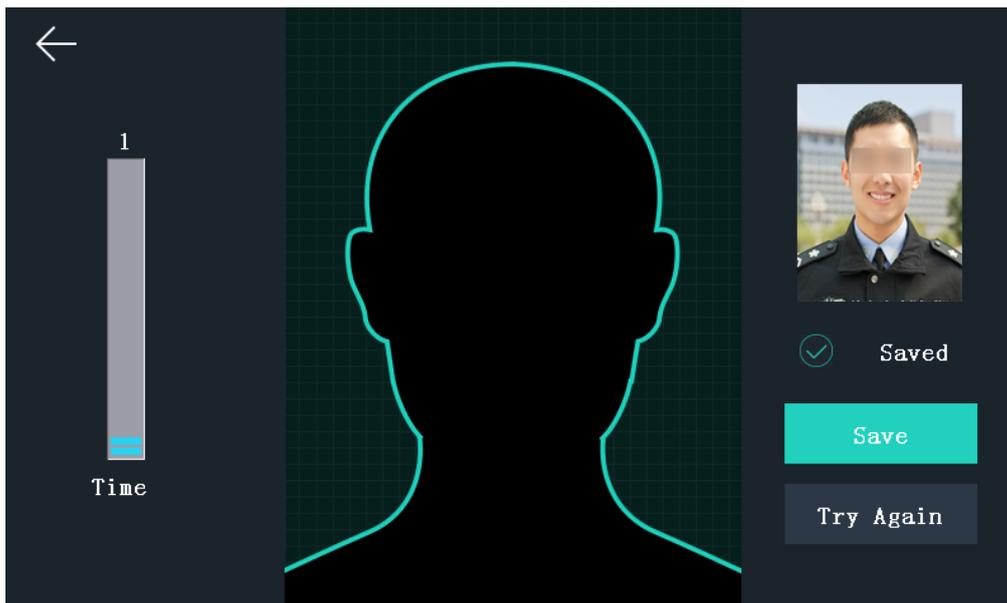
- 1) Place your finger on the fingerprint module.
- 2) Follow the instructions on the screen to record the fingerprint.
- 3) After adding the fingerprint completely, tap **Yes** in the pop-up dialog to save the fingerprint and continue to add another fingerprint.

Or tap **No** to save the fingerprint and go back to the Add User page.

Notes:

- The same fingerprint cannot be repeatedly added.
- Up to 10 fingerprints can be added for one user.
- You can also use the client software or the fingerprint recorder to record fingerprints.
- For details about the instructions of scanning fingerprints, see Appendix A Tips for Scanning Fingerprint.

7. Tap the **Face Picture** field to enter the face picture adding page.



Follow the steps below to add the user's face picture.

- 1) Position your face looking at the camera.

Note: Make sure your face picture is in the face picture outline when adding the face picture.

After completely adding the face picture, a captured face picture will be displayed at the upper right corner of the page.

Notes:

- Make sure the captured face picture is in good quality and is accurate.
- For details about the instructions of adding face pictures, see *Appendix B Tips When Collecting/Comparing Face Picture*.

- 2) Tap **Save** to save the face picture.

Or tap **Try Again** and adjust your face position to add the face picture again.

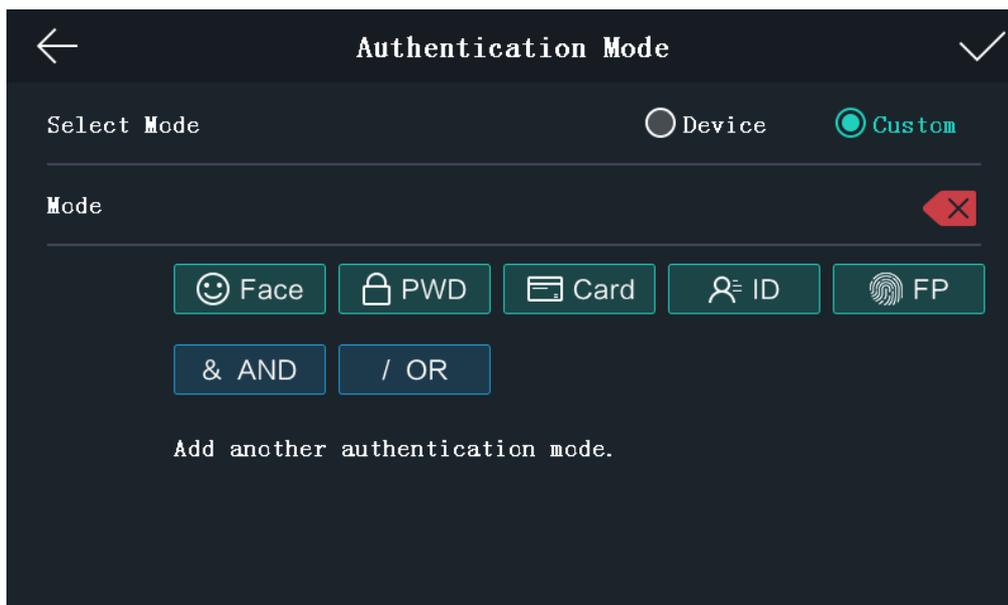
Note: The maximum duration for adding a face picture is 15s. You can check the remaining time for adding a face picture on the left of the page.

8. Tap the **Profile Photo** field and you can view the captured picture when adding the face picture.

9. Tap the **Schedule Template** field to enter the Schedule Template page. Select a schedule template and tap to save the settings.

Note: For details about setting the schedule template, see *6.6 Schedule and Template*. After applying the schedule template from the client software to the device, you can select the corresponding schedule template

10. Tap **Authentication Mode** to enter the Authentication Mode page. Select **Device** or **Custom** as the authentication mode.



Device: If you want to select device mode, you should set the terminal authentication mode in Access Control Settings page first. For details see *5.5 Setting Access Control Parameters*.

Custom: You can combine different authentication modes together according to your actual needs.

Tap to save the settings.

Note: The device with the models of DS-K1T605E/M and DS-K1T605M-B does not support the fingerprint function.

11. Enable or disable the **Administrator Permission** function.

Note: You can only operate the function on the device.

Enable Administrator Permission: The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

Disable Administrator Permission: The User is the normal user. The user can only take attendance on the initial page.

12. Enable or disable the **Duress Card** function.

When the function is enabled, the user's card will be the duress card. When the user authenticates by swiping this duress card, the device will upload an duress card event to the client software.

13. Tap to save the user parameters and go back to the Home page.

5.4.2 Managing User

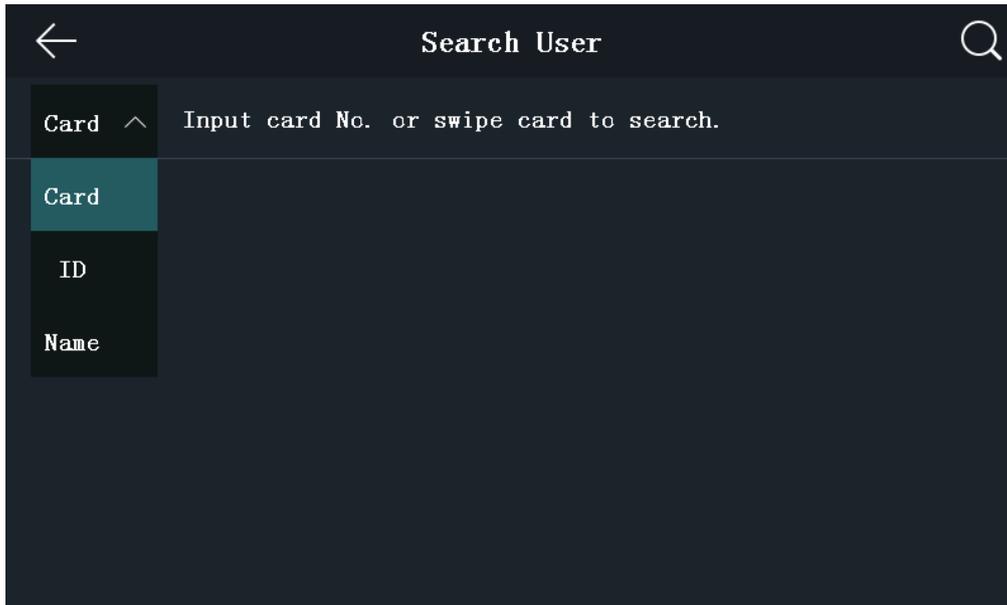
Searching User

Purpose:

You can search the user in the list according to the employee ID, the card No., or the user name.

Steps:

1. On the User Management page, Tap  to enter the Search User page.



2. Tap **Card** on the left of the page and select a search type from the drop-down list.
3. Tap the input box and input the employee ID, the card No., or the user name for search.
4. Tap  to start search.
The searching result will be displayed in the list below.

Editing User

Purpose:

You can edit the added user information by following the steps in this section.

Steps:

1. In the User Management page, tap the user that needs to be edited to enter the Edit User page.
2. Refer to the parameters' instructions in *Section 5.4.1 Adding User* to edit the user information.
3. Tap  to save the settings and go back to the User Management page.

Note: The employee ID cannot be edited.

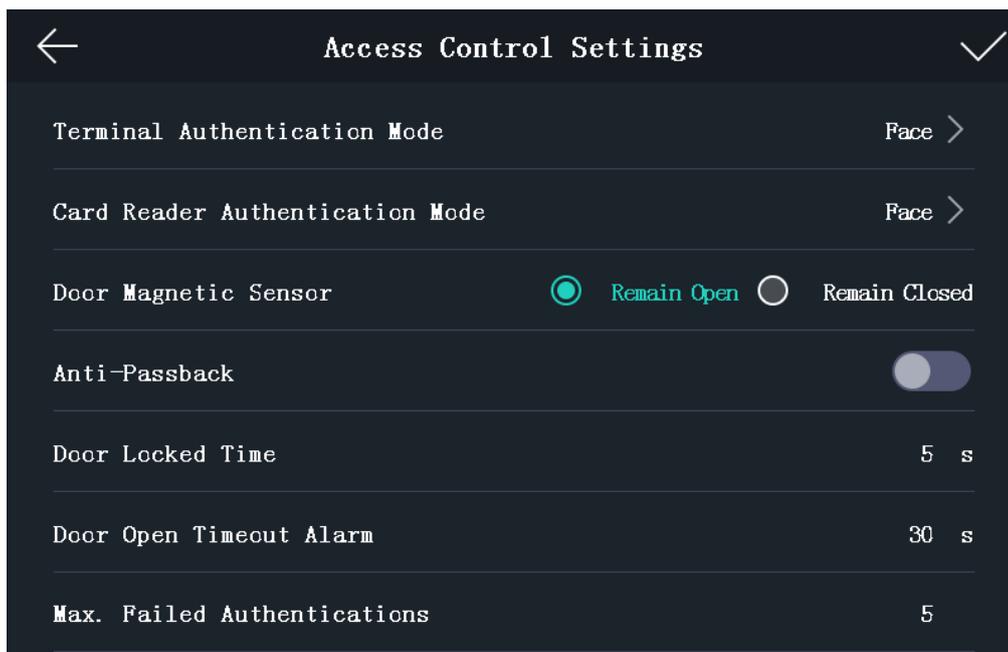
5.5 Setting Access Control Parameters

Purpose:

You can set the access control permissions, including the functions of authentication mode, door magnetic sensor, anti-passback, lock action time, door-open timeout alarm, and authentication times exceeds alarm.

Steps:

1. On the Home page, tap **ACS** (Access Control Settings) to enter the Access Control Settings page.



2. Edit the access control parameters.

The available parameters descriptions are as follows:

| Parameter | Description |
|--|--|
| Terminal Authentication Mode | Select the face recognition terminal's authentication mode. You can also customize the authentication mode. Notes: <ul style="list-style-type: none"> ● The device with the model of DS-K1T605E/M and DS_K1T605M-B do not support the fingerprint function. ● If you require a higher security level, do not use single authentication mode. |
| Card Reader Authentication Mode | Select the card reader's authentication mode. |
| Door Magnetic Sensor | You can select Remain Open or Remain Closed according to your actual needs. By default, it is Remain Closed. |
| Anti-Passback | When enabling the anti-passback function, you should set the anti-password path in the iVMS-4200 Client Software. The person should authenticate according to the configured path. Or the authentication will be failed. |
| Door Locked Time | Set the door unlocking duration. If the door is not opened for the set time, the door will be locked. Available door locked time range: 1 to 255s. |
| Door Open Timeout Alarm | The alarm can be triggered if the door has not been closed. Available range: 0 to 255s. |

| | |
|---|---|
| <p>Max. Failed Authentications</p> | <p>Set the maximum authentication times. If you failed to authenticate for the set times, the alarm will be triggered.</p> <p>Available range: 1 to 10.</p> |
|---|---|

3. Tap  to save the settings.

5.6 Other Managements

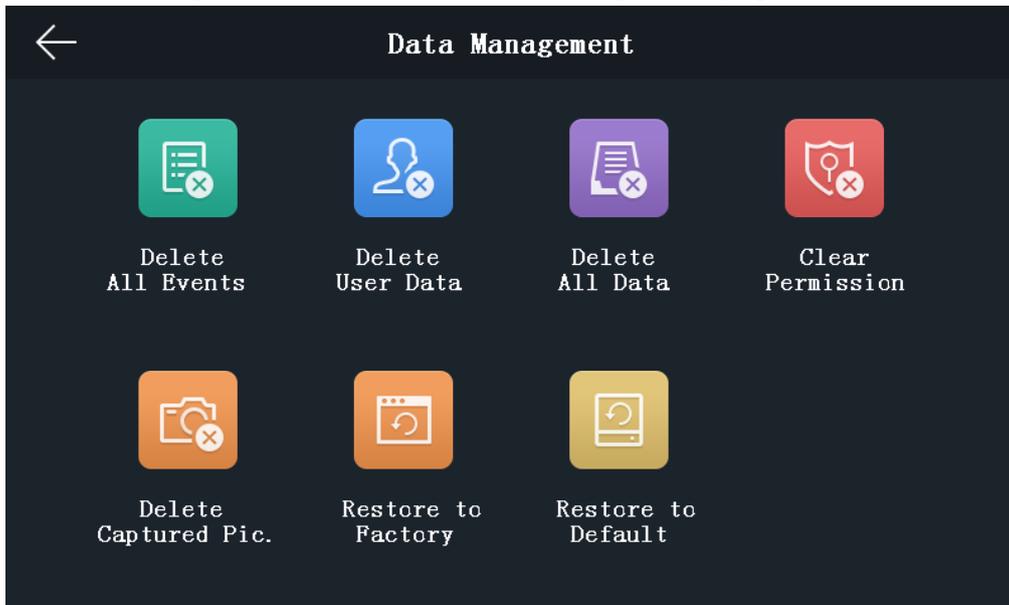
5.6.1 Managing Data

Purpose:

On the Data Management page, you can delete all events, delete user data, delete all data, clear permission, delete captured pictures, restore to factory settings, or restore to default settings.

Steps:

1. Tap **Data** (Data Management) to enter the Data Management page.



2. Tap the button on the page to manage data.
The available button descriptions are as follows:

| Parameter | Description |
|------------------------------|--|
| Delete All Events: | Delete all events stored in the device. |
| Delete User Data: | Delete all user data in the device. |
| Delete All Data: | Delete all user data and events stored in the device. |
| Clear Permission: | Clear the administrator’s permission but the administrator and the related logs will not be deleted. |
| Delete Captured Pic.: | Delete the device captured pictured. |

| | |
|----------------------------|---|
| Restore to Factory: | Restore the system to the factory settings. The device will reboot after the setting. |
| Restore to Default: | Restore the system to the default settings. The system will save the communication settings and the remote user settings. Other parameters will be restored to default. |

3. Tap **Yes** on the pop-up dialog to complete the settings.

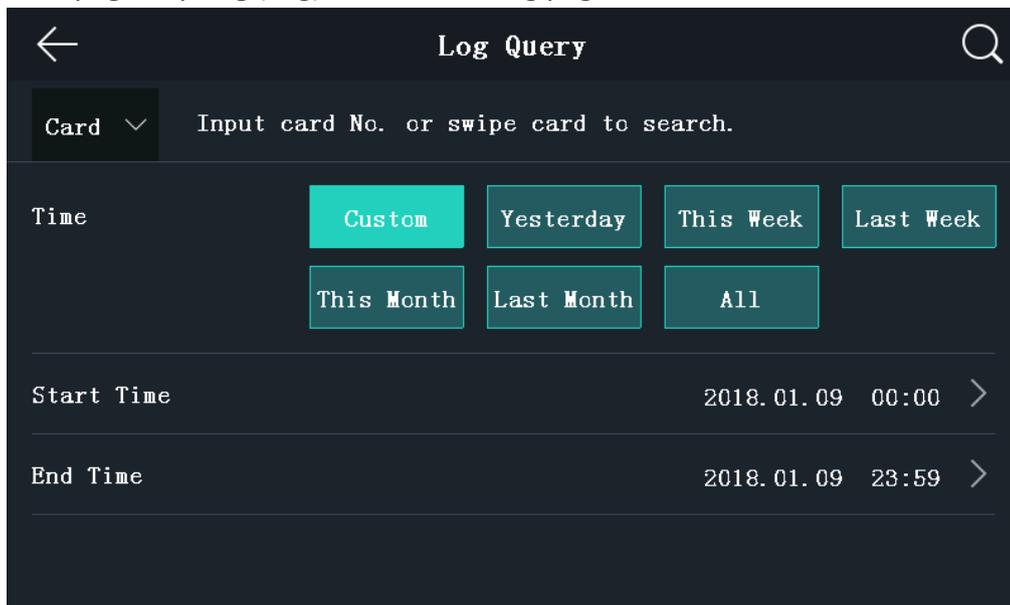
5.6.2 Managing Log Query

Purpose:

You can search the authentication logs within a period of time by inputting employee ID, card No., or user name.

Steps:

1. On the Home page, tap **Log** (Log) to enter the Log page.



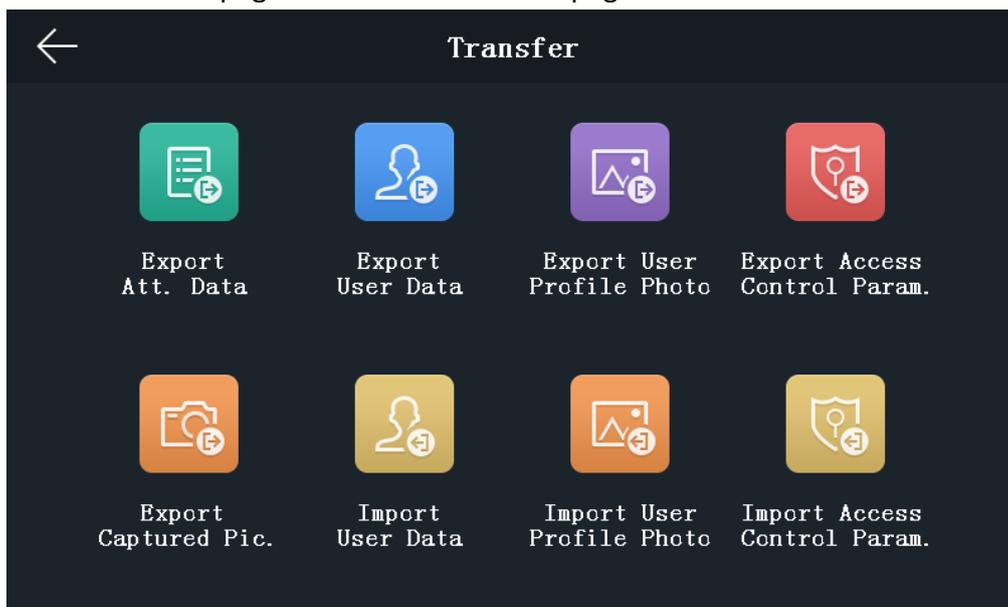
2. Tap **Card** on the left of the page and select a search type from the drop-down list.
3. Tap the input box and input the employee ID, the card No., or the user name for search.
4. Select time.
You can select from **Custom, Yesterday, This Week, Last Week, This Month, Last Month, or All**.
If you select **Custom**, you can customize the start time and the end time for search.
5. Tap  to start search.
The result will be displayed in the page.

5.6.3 Importing/Exporting Data

Purpose:

On the Transfer page, you can export the attendance data, the user data, the user picture, the access control parameter, and the captured picture to the USB flash drive. You can also import the user data, the user picture, and the access control parameter from the USB flash drive.

Tap **Transfer** on the Home page to enter the Transfer page.



Exporting Data

Steps:

1. Plug a USB flash drive in the device.
2. On the Transfer page, tap **Export Att. Data**, **Export User Data**, **Export User Profile Photo**, **Export Access Control Param.**, or **Export Captured Pic.**
3. Tap **Yes** on the pop-up page and the data will be exported from the device to the USB flash drive.

Notes:

- The supported USB flash drive format is FAT 32.
- The system supports the USB flash drive with the storage of 1G to 32G. Make sure the free space of the USB flash drive is more than 512M.
- The exported user data is a BIN file, which cannot be edited.

Importing Data

Steps:

1. Plug a USB flash drive in the device.
2. On the Transfer page, tap **Import User Data**, **Import User Profile Photo**, or **Import Access Control Param.**
3. Tap **Yes** on the pop-up window and the data will be imported from the USB flash drive to the

device.

Notes:

- If you want to transfer all user information from one device (Device A) to another (Device B), you should export the information from Device A to the USB flash drive and then import from the USB flash drive to Device B. In this case, you should import the user data before importing the profile photo.
- The supported USB flash drive format is FAT 32.
- The imported picture should be saved in the root directory (enroll_pic) and the picture file's name should be follow the rule below:
Card No._Name_Department_Employee ID_Gender.jpg
- The employee ID should between 1 and 99999999, should not be duplicated, and should not start with 0.
- Requirements of face picture: It should be taken in full-face view, directly facing the camera. Do not wear a hat or head covering when taking the face picture. The format should be JPEG or JPG. The resolution should be more than 640 × 480 pixel and less than 2160 × 3840 pixel. The picture size should be between 40 KB and 200 KB.

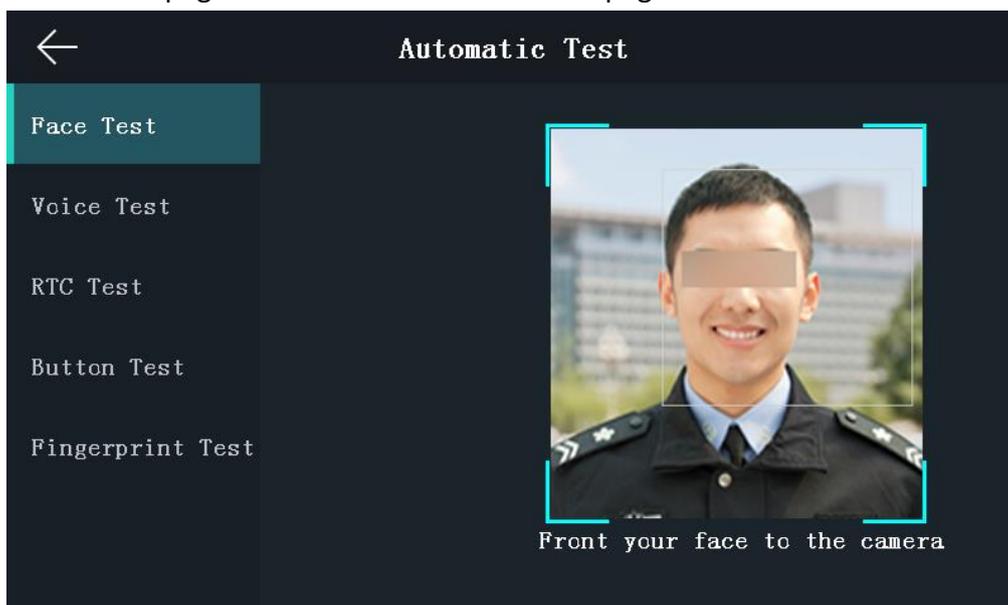
5.6.4 Testing

Purpose:

You can test the capability of the device's face detection function, voice prompt function, fingerprint authentication function, time, and button.

Note: The device with the model of DS-K1T605E/M or DS-K1T605M-B does not support the fingerprint function.

Tap **Test** on the Home page to enter the Automatic Test page.



| Parameters | Description |
|--------------------------|--|
| Face Test: | Position your face looking at the camera and the device will test the face detection function. |
| Voice Test: | If the voice prompt function is working properly, you will hear the voice prompt “Authenticated” from the device. And there will also be a prompt on the page. |
| RTC Test: | If the device RTC is working properly, the page will display the device current time. |
| Button Test: | Press the doorbell button. If the button is working properly, the doorbell icon on the page will turn to blue. |
| Fingerprint Test: | Tap Start on the page, and put your finger on the fingerprint module. If the function is working properly, the page will display the fingerprint quality. |

5.6.5 Viewing System Information

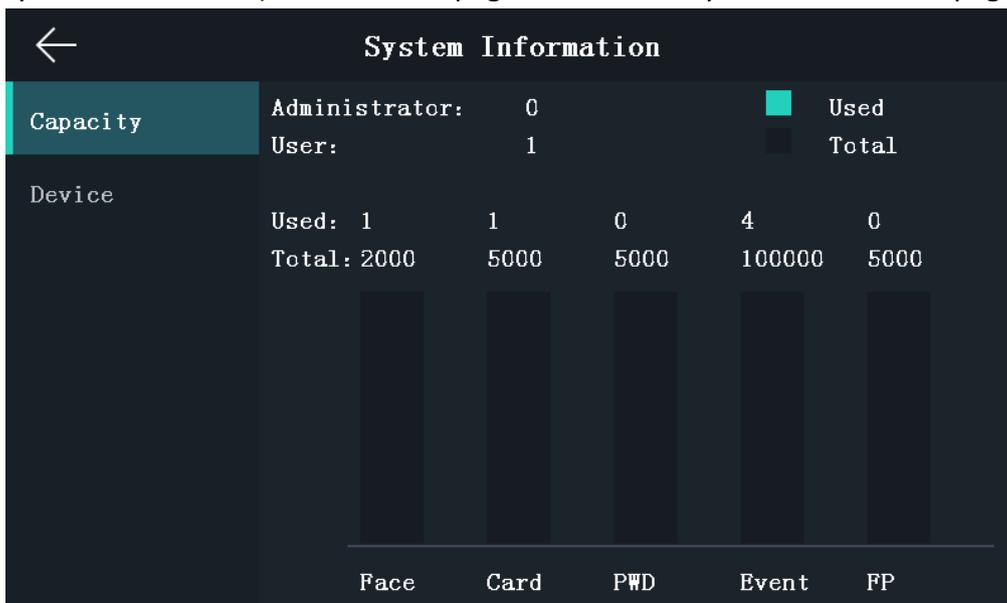
Viewing Capacity

Purpose:

You can view the added user’s number, the face picture’s number, the card’s number, the password’s number, and the fingerprint’s number.

Note: The device with the model of DS-K1T605E/M and DS-K1T605M-B do not support the fingerprint function.

Tap **Info.** (System Information) on the Home page to enter the System Information page.

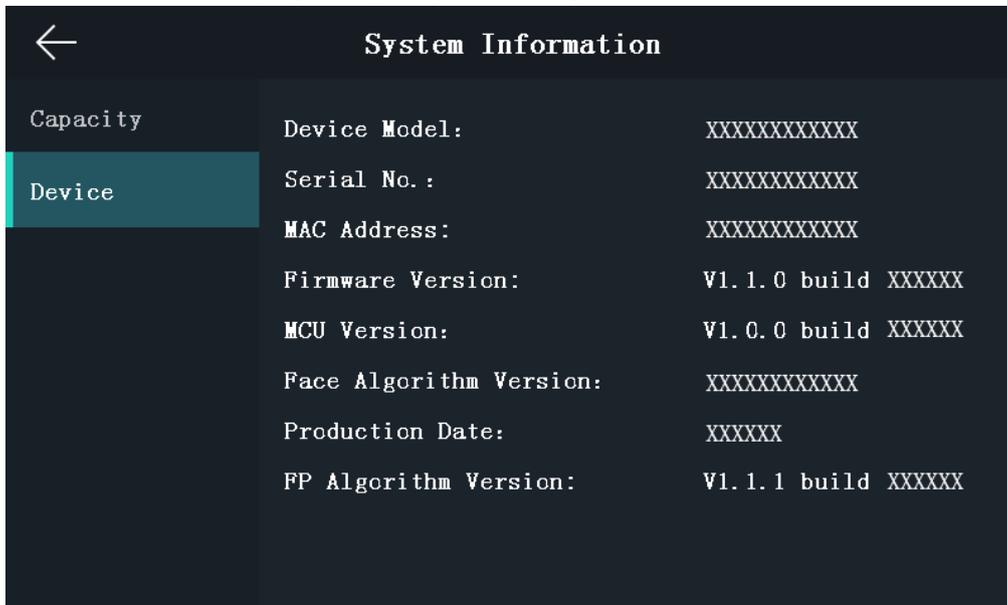


Viewing Device Information

Purpose:

You can view the device model, the serial No., the MAC address, the firmware version, MCU version, the face algorithm version, the production date, and the fingerprint algorithm version.

Note: The device information page may vary according to different device models.



5.7 Authenticating Identity

Purpose:

You can authenticate identity via 1:1 matching or 1:N matching. We suggest that if it is difficult to recognize the face, you can use the 1:1 face matching mode. If the light or the other elements that affect the face recognition, you can use fingerprint authentication or other authentication modes.

Note: If you require a higher security level, do not use single authentication mode.

1:N Matching: Compare the captured face picture or the collected fingerprint picture with all face pictures or all fingerprint pictures stored in the device

1:1 Matching: Compare the captured face picture or the collected fingerprint picture with the face picture or the fingerprint picture or the password that related to the input employee ID.

5.7.1 Authenticating via 1:1 Matching

Steps:

1. On the Initial page, tap **1:1** at the lower right corner of the page to enter the 1:1 matching page.



2. Input the employee ID.
3. Tap , , or  to authenticate via face picture, fingerprint, or password.
Note: Tap  to switch to the password inputting page. You can input the super password or duress code for authentication.

5.7.2 Authenticating via Other Types

Steps:

1. According to the configured authentication mode, authenticate by comparing face pictures, fingerprints or by swiping card.

Face Picture Authentication: Stand in front of the device. Position your face looking at the camera and the device will enter the face picture authentication mode.

Note: For detailed information about authenticating face picture, see *Appendix B Tips When Collecting/Comparing Face Picture*.

Fingerprint Picture Authentication: Scan your fingerprint on the fingerprint module of the device. For detailed information about scanning fingerprint, see *Appendix A Tips for Scanning Fingerprint*.

Authentication by Swiping Card Swipe card above the card swiping area.

2. If the user has no other authentication modes, the authentication is completed.
If the user has other authentication modes after the first authentication, follow the instructions to continue authenticating until the authentication is completed.

Chapter 6 Client Operation

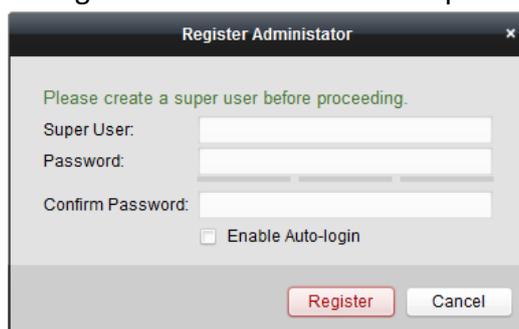
You can set and operate the access control devices via the client software. This chapter will introduce the access control device related operations in the client software. For integrated operations, refer to *User Manual of iVMS-4200 Client Software*.

6.1 User Registration and Login

For the first time to use iVMS-4200 client software, you need to register a super user for login.

Steps:

1. Input the super user name and password. The software will judge password strength automatically, and we highly recommend you to use a strong password to ensure your data security.
2. Confirm the password.
3. Optionally, check the checkbox **Enable Auto-login** to log into the software automatically.
4. Click **Register**. Then, you can log into the software as the super user.

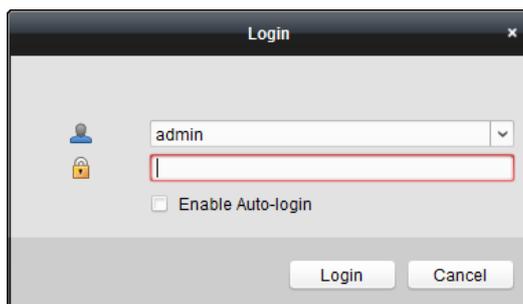


- ◆ A user name cannot contain any of the following characters: / \ : * ? " < > |. And the length of the password cannot be less than 6 characters.
- ◆ For your privacy, we strongly recommend changing the password to something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product.
- ◆ Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

When opening iVMS-4200 after registration, you can log into the client software with the registered user name and password.

Steps:

1. Input the user name and password you registered.
2. Optionally, check the checkbox **Enable Auto-login** to log into the software automatically.
3. Click **Login**.



After running the client software, you can open the wizards (including video wizard, video wall wizard, security control panel wizard, access control and video intercom wizard, and attendance wizard), to guide you to add the device and do other settings and operations. For detailed configuration about the wizards, please refer to the *Quick Start Guide of iVMS-4200*.

6.2 System Configuration

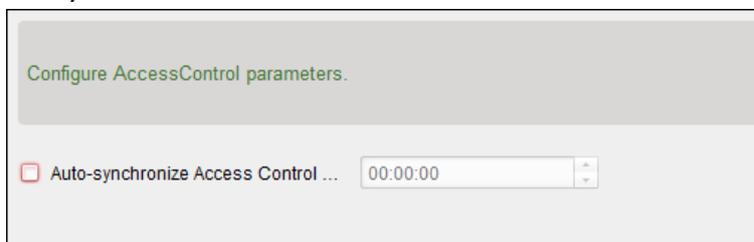
Purpose:

You can synchronize the missed access control events to the client.

Steps:

1. Click **Tool – System Configuration**.
2. In the System Configuration window, check the **Auto-synchronize Access Control Event** checkbox.
3. Set the synchronization time.

The client will auto-synchronize the missed access control event to the client at the set time.



6.3 Access Control Management

Purpose:

The Access Control module is applicable to access control devices and video intercom. It provides multiple functionalities, including person and card management, permission configuration, access control status management, video intercom, and other advanced functions.

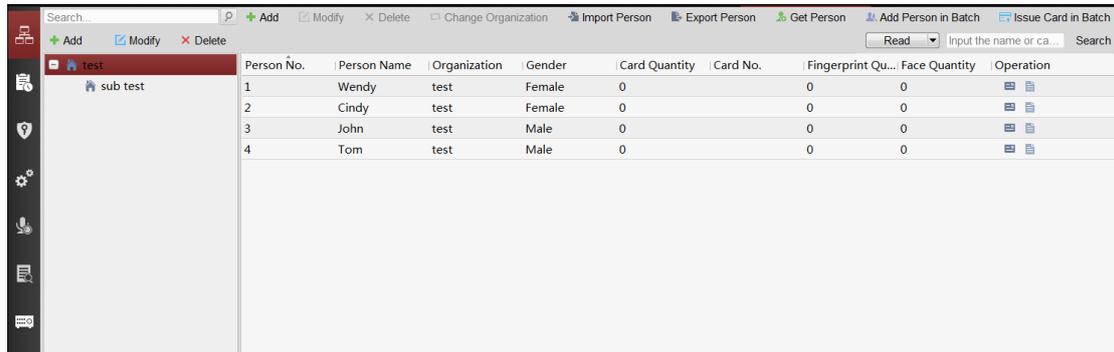
You can also set the event configuration for access control and display access control points and zones on E-map.

Note: For the user with access control module permissions, the user can enter the Access Control module and configure the access control settings.



Click  in the control panel, and check **Access Control** to add the Access Control module to the control panel.

Click  to enter the Access Control module.



| Person No. | Person Name | Organization | Gender | Card Quantity | Card No. | Fingerprint Qu... | Face Quantity | Operation |
|------------|-------------|--------------|--------|---------------|----------|-------------------|---------------|---|
| 1 | Wendy | test | Female | 0 | 0 | 0 | 0 |   |
| 2 | Cindy | test | Female | 0 | 0 | 0 | 0 |   |
| 3 | John | test | Male | 0 | 0 | 0 | 0 |   |
| 4 | Tom | test | Male | 0 | 0 | 0 | 0 |   |

Before you start:

For the first time opening the Access Control module, the following dialog will pop up and you are required to select the scene according to the actual needs.

Non-residence: You can set the attendance rule when adding person, while set the access control parameters.

Residence: You cannot set the attendance rule when adding person.



Note: Once the scene is configured, you cannot change it later.

6.3.1 Adding Access Control Device

Click  in the Access Control module to enter the following interface.

| Device Type | Nickname | Connection ... | Network Parameters | Device Serial No. |
|------------------------|------------------------|----------------|--------------------|-------------------|
| Access Controller | Access Controller | TCP/IP | 10.18.146.86:8000 | DS- [redacted] 6 |
| Encoding Device | 10.33.3.159 | TCP/IP | 10.33.3.159:8000 | DS- [redacted] 3 |
| Encoding Device | 10.16.6.250 | TCP/IP | 10.16.6.250:8000 | 2014- [redacted] |
| Encoding Device | 10.20.132.215 | TCP/IP | 10.20.132.215:8000 | DS- [redacted] 7 |
| Encoding Device | 10.66.76.193 | TCP/IP | 10.66.76.193:8005 | DS- [redacted] J |
| Indoor Station | Indoor Station | TCP/IP | 10.16.6.104:8000 | DS- [redacted] J |
| Security Control Panel | Security Control Pa... | TCP/IP | 10.18.146.81:8000 | DS- [redacted] U |
| Security Control Panel | 10.16.6.92 | TCP/IP | 10.16.6.92:8000 | DS- [redacted] 7 |

Note: After adding the device, you should check the device arming status in **Tool – Device Arming Control**. If the device is not armed, you should arm it, or you will not receive the real-time events via the client software. For details about device arming control, refer *6.12 Arming Control*.

Creating Password

Purpose:

For some devices, you are required to create the password to activate them before they can be added to the software and work properly.

Note: This function should be supported by the device.

Steps:

1. Enter the Device Management page.
2. On the **Device for Management** or **Online Device** area, check the device status (shown on **Security** column) and select an inactive device.

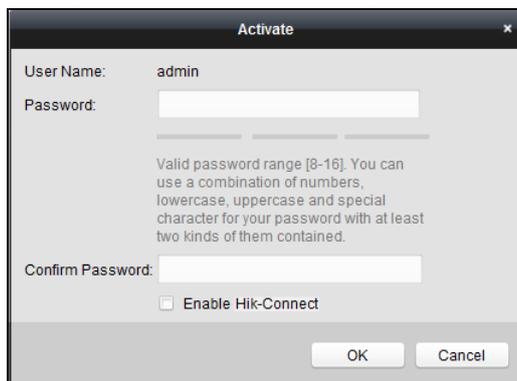
| IP | Device Type | Firmware Version | Security | Server Port | Device Serial No. | Start Time |
|--------------|-------------|------------------|----------|-------------|-------------------|------------|
| 192.0.0.64 | [redacted] | [redacted] | Active | 8000 | [redacted] | 2017-01 |
| 192.168.1.64 | [redacted] | [redacted] | Inactive | 8000 | [redacted] | 2017-01 |

3. Click the **Activate** button to pop up the Activation interface.
4. Create a password in the password field, and confirm the password.

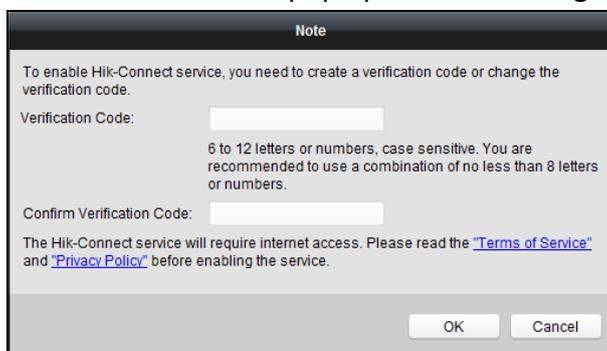


STRONG PASSWORD RECOMMENDED– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product.

And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.



- 5. (Optional) Enable Hik-Connect service when activating the device if the device supports.
 - 1) Check **Enable Hik-Connect** checkbox to pop up the Note dialog.



- 2) Create a verification code.
 - 3) Confirm the verification code.
 - 4) Click **Terms of Service** and **Privacy Policy** to read the requirements.
 - 5) Click **OK** to enable the Hik-Connect service.
 - 6. Click **OK** to activate the device.

A "The device is activated." window pops up when the password is set successfully.
 - 7. Click **Modify Netinfo** to pop up the Modify Network Parameter interface.

Note: This function is only available on the **Online Device** area. You can change the device IP address to the same subnet with your computer if you need to add the device to the software.
 - 8. Change the device IP address to the same subnet with your computer by either modifying the IP address manually or checking the checkbox of DHCP.
 - 9. Input the password set in step 4 and click **OK** to complete the network settings.

The screenshot shows a dialog box titled "Modify Network Parameter". It is divided into two main sections: "Device Information" and "Network Information".

- Device Information:**
 - MAC Address: [Text Field] [Copy]
 - Software Version: [Text Field] [Copy]
 - Device Serial No.: [Text Field] [Copy]
- Network Information:**
 - DHCP
 - Port: [Text Field] (value: 8000)
 - IPv4(Don't Save)
 - IP Address: [Text Field] (value: 10.16.1.233)
 - Subnet Mask: [Text Field] (value: 255.255.255.0)
 - Gateway: [Text Field] (value: 10.16.1.254)
 - IPv6(Don't Save)
 - Password: [Text Field] (value: ••••••••)

At the bottom right, there are "OK" and "Cancel" buttons.

Adding Online Device

Purpose:

The active online devices in the same local subnet with the client software will be displayed on the **Online Device** area. You can click the **Refresh Every 60s** button to refresh the information of the online devices.

Note: You can click  to hide the **Online Device** area.

The screenshot shows a window titled "Online Device (19)" with a "Refresh Every 60s" button. Below the title bar are several action buttons: "Add to Client", "Add All", "Modify Netinfo", "Reset Password", and "Activate". A "Filter" input field is also present. The main area contains a table with the following data:

| IP | Device Type | Firmware Version | Security | Server Port | Device Serial No. | Start Time |
|-------------|-------------|------------------|----------|-------------|-------------------|------------|
| 10.16.6.236 | D | [Redacted] | Active | 8000 | [Redacted] | 2017-01 |
| 10.16.6.92 | D | [Redacted] | Active | 8000 | [Redacted] | 2017-01 |
| 192.0.0.64 | D | [Redacted] | Active | 8000 | [Redacted] | 2017-01 |

Steps:

1. Select the devices to be added from the list.

Note: For the inactive device, you need to create the password for it before you can add the device properly. For detailed steps, please refer to Chapter 5.

2. Click **Add to Client** to open the device adding dialog box.
3. Input the required information.

Nickname: Edit a name for the device as you want.

Address: Input the device's IP address. The IP address of the device is obtained automatically in this adding mode.

Port: Input the device port No. The default value is 8000.

User Name: Input the device user name. By default, the user name is *admin*.

Password: Input the device password.



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of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.

Note: iVMS-4200 also provides a method to add the offline devices.

- 1) Check the **Add Offline Device** checkbox.
- 2) Input the required information, including the device channel number and alarm input number.
- 3) Click **Add**.

When the offline device comes online, the software will connect it automatically.

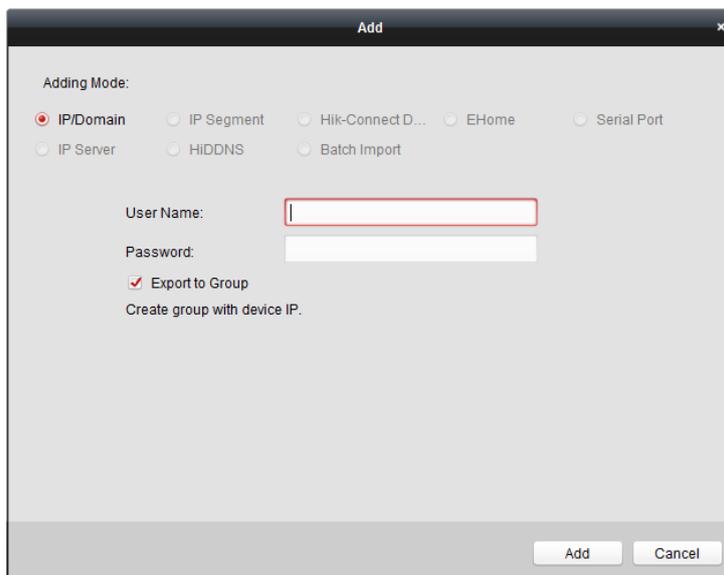
5. Click **Add** to add the device.

➤ Adding Multiple Online Device

If you want to add multiple online devices to the client software, click and hold *Ctrl* key to select multiple devices, and click **Add to Client** to open the device adding dialog box. In the pop-up message box, enter the user name and password for the devices to be added.

➤ Adding All Online Devices

If you want to add all the online devices to the client software, click **Add All** and click **OK** in the pop-up message box. Then enter the user name and password for the devices to be added.



Adding Devices by IP or Domain Name

Steps:

1. Click **Add** to open the device adding dialog box.
2. Select **IP/Domain** as the adding mode.
3. Input the required information.

Nickname: Edit a name for the device as you want.

Address: Input the device's IP address or domain name.

Port: Input the device port No. The default value is 8000.

User Name: Input the device user name. By default, the user name is *admin*.

Password: Input the device password.



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4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.

Note: iVMS-4200 also provides a method to add the offline devices.

- 1) Check the **Add Offline Device** checkbox.
- 2) Input the required information, including the device channel number and alarm input number.
- 3) Click **Add**.

When the offline device comes online, the software will connect it automatically.

5. Click **Add** to add the device.

Adding Devices by IP Segment

Steps:

1. Click **Add** to open the device adding dialog box.
2. Select **IP Segment** as the adding mode.
3. Input the required information.

Start IP: Input a start IP address.

End IP: Input an end IP address in the same network segment with the start IP.

Port: Input the device port No. The default value is *8000*.

User Name: Input the device user name. By default, the user name is *admin*.

Password: Input the device password.



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4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.

Note: iVMS-4200 also provides a method to add the offline devices.

- 1) Check the **Add Offline Device** checkbox.
- 2) Input the required information, including the device channel number and alarm input number.
- 3) Click **Add**.

When the offline device comes online, the software will connect it automatically.

5. Click **Add**.

You can add the device which the IP address is between the start IP and end IP to the device list.

Adding Devices by Hik-Connect Domain

Purpose:

You can add the devices connected via Hik-Connect by inputting the Hik-Connect account and password.

Before you start: Add the devices to Hik-Connect account via iVMS-4200, iVMS-4500 Mobile Client, or Hik-Connect first. For details about adding the devices to Hik-Connect account via iVMS-4200, refer to *the User Manual of iVMS-4200 Client Software*.

➤ Add Single Device

Steps:

1. Click **Add** to open the device adding dialog.
2. Select **Hik-Connect Domain** as the adding mode.
3. Select **Single Adding**.
4. Input the required information.

Nickname: Edit a name for the device as you want.

Device Serial No.: Input the device serial No.

User Name: Input the device user name. By default, the user name is *admin*.

Password: Input the device password.



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Hik-Connect Account: Input the Hik-Connect account.

Hik-Connect Password: Input the Hik-Connect password.

- Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.
- Click **Add** to add the device.

The screenshot shows a dialog box titled "Add". Under "Adding Mode:", there are radio buttons for "IP/Domain", "IP Segment", "Hik-Connect D..." (selected), "EHome", and "Serial Port". Below that are "IP Server", "HIDDNS", and "Batch Import". Under "Adding Mode:", there are radio buttons for "Batch Adding" and "Single Adding" (selected). There are input fields for "Nickname:", "Device Serial No.:", "User Name:", "Password:", "Hik-Connect Account:", and "Hik-Connect Password:". A checkbox labeled "Export to Group" is checked. Below the checkbox is a note: "Set the device name as the group name and add all the channels connected to the device to the group." At the bottom right are "Add" and "Cancel" buttons.

Add Devices in Batch

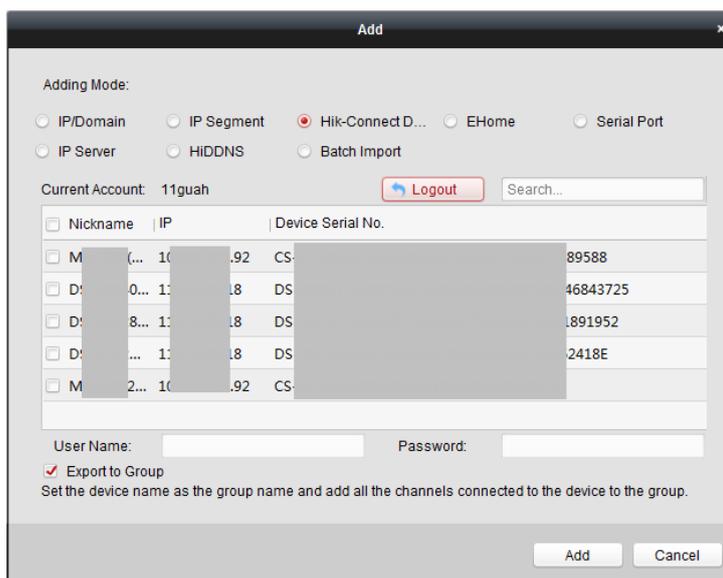
Steps:

- Click **Add** to open the device adding dialog.

The screenshot shows a dialog box titled "Add". Under "Adding Mode:", there are radio buttons for "IP/Domain", "IP Segment", "Hik-Connect D..." (selected), "EHome", and "Serial Port". Below that are "IP Server", "HIDDNS", and "Batch Import". Under "Adding Mode:", there are radio buttons for "Batch Adding" (selected) and "Single Adding". There are input fields for "Hik-Connect Account:" and "Hik-Connect Password:". A button labeled "Get Device List" is located below the password field. At the bottom right are "Add" and "Cancel" buttons.

- Select **Hik-Connect Domain** as the adding mode.
- Select **Batch Adding**.
- Input the required information.
Hik-Connect Account: Input the Hik-Connect account.
Hik-Connect Password: Input the Hik-Connect password.

- Click **Get Device List** to show the devices added to Hik-Connect account.



- Check the checkbox(es) to select the device as desired.
- Input the user name and password for the devices to be added.
- Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.
- Click **Add** to add the devices.

Adding Devices by EHome Account

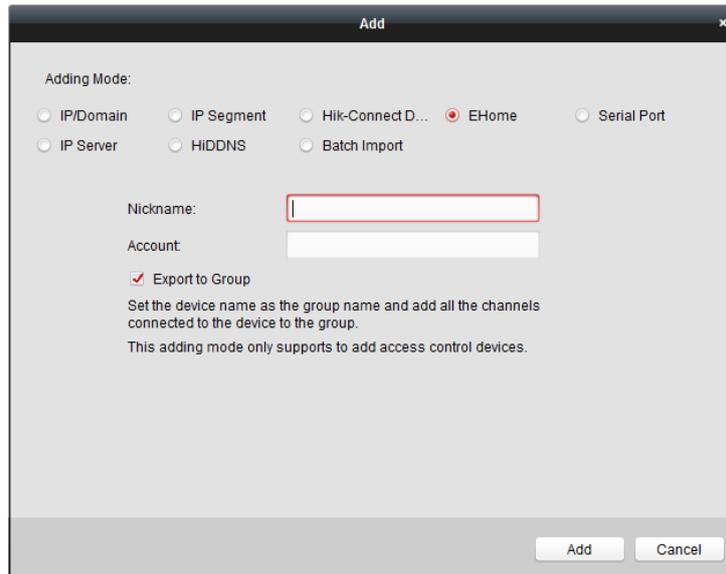
Purpose:

You can add access control device connected via EHome protocol by inputting the EHome account.

Before you start: Set the network center parameter first. For details, refer to *Chapter 6.3.4 Network Settings*.

Steps:

- Click **Add** to open the device adding dialog box.
- Select **EHome** as the adding mode.



3. Input the required information.

Nickname: Edit a name for the device as you want.

Account: Input the account name registered on EHome protocol.

4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.

Note: iVMS-4200 also provides a method to add the offline devices.

1) Check the **Add Offline Device** checkbox.

2) Input the required information, including the device channel number and alarm input number.

3) Click **Add**.

When the offline device comes online, the software will connect it automatically.

5. Click **Add** to add the device.

Adding Devices by Serial Port

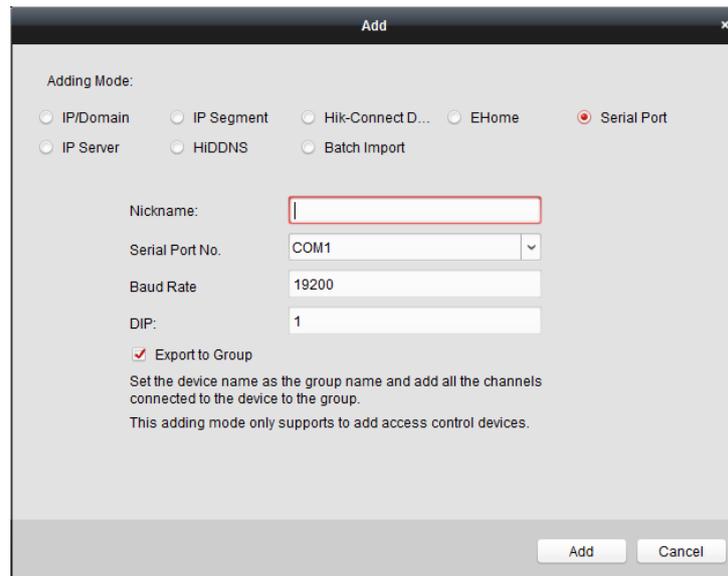
Purpose:

You can add access control device connected via serial port.

Steps:

1. Click **Add** to open the device adding dialog box.

2. Select **Serial Port** as the adding mode.



3. Input the required information.
 - Nickname:** Edit a name for the device as you want.
 - Serial Port No.:** Select the device's connected serial port No.
 - Baud Rate:** Input the baud rate of the access control device.
 - DIP:** Input the DIP address of the device.
4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.

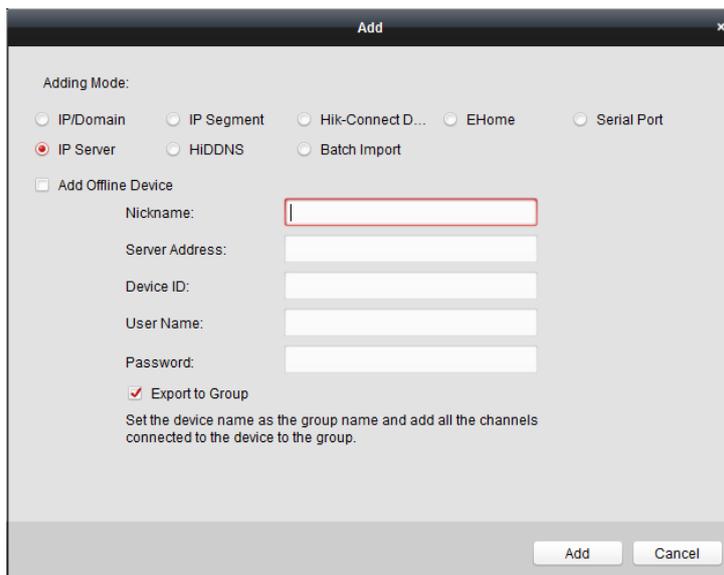
Note: iVMS-4200 also provides a method to add the offline devices.

 - 1) Check the **Add Offline Device** checkbox.
 - 2) Input the required information, including the device channel number and alarm input number.
 - 3) Click **Add**.When the offline device comes online, the software will connect it automatically.
5. Click **Add** to add the device.

Adding Devices by IP Server

Steps:

1. Click **Add** to open the device adding dialog box.
2. Select **IP Server** as the adding mode.



3. Input the required information.

Nickname: Edit a name for the device as you want.

Server Address: Input the IP address of the PC that installs the IP Server.

Device ID: Input the device ID registered on the IP Server.

User Name: Input the device user name. By default, the user name is *admin*.

Password: Input the device password.



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4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.

Note: iVMS-4200 also provides a method to add the offline devices.

1) Check the **Add Offline Device** checkbox.

2) Input the required information, including the device channel number and alarm input number.

3) Click **Add**.

When the offline device comes online, the software will connect it automatically.

5. Click **Add** to add the device.

Adding Devices by HiDDNS

Steps:

1. Click **Add** to open the device adding dialog box.

2. Select **HiDDNS** as the adding mode.

3. Input the required information.

Nickname: Edit a name for the device as you want.

Server Address: www.hik-online.com.

Device Domain Name: Input the device domain name registered on HiDDNS server.

User Name: Input the device user name. By default, the user name is *admin*.

Password: Input the device password.



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4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.

Note: iVMS-4200 also provides a method to add the offline devices.

1) Check the **Add Offline Device** checkbox.

2) Input the required information, including the device channel number and alarm input number.

3) Click **Add**.

When the offline device comes online, the software will connect it automatically.

5. Click **Add** to add the device.

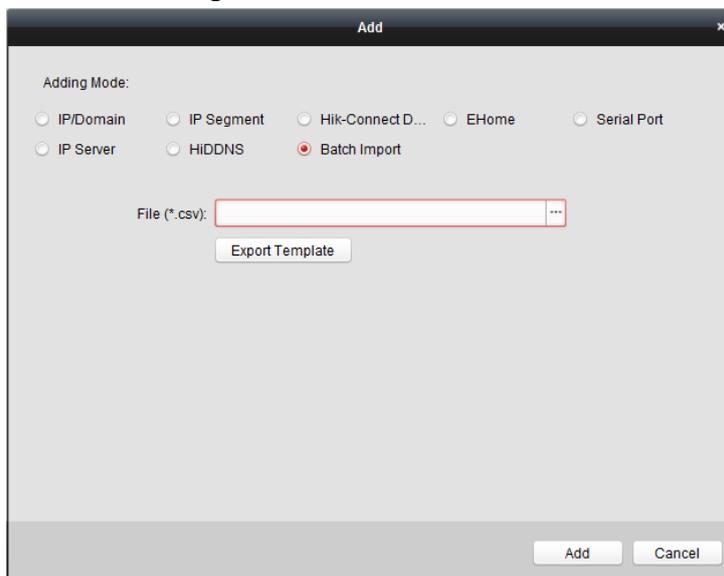
Importing Devices in Batch

Purpose:

The devices can be added to the software in batch by inputting the device information in the pre-defined CSV file.

Steps:

1. Click **Add** to open the device adding dialog box.
2. Select **Batch Import** as the adding mode.



3. Click **Export Template** and save the pre-defined template (CSV file) on your PC.
4. Open the exported template file and input the required information of the devices to be added on the corresponding column.
 - **Nickname:** Edit a name for the device as you want.
 - **Adding Mode:** You can input 0, 2, 3, 4, 5, or 6 which indicated different adding modes. 0 indicates that the device is added by IP address or domain name; 2 indicates that the device is added via IP server; 3 indicates that the device is added via HiDDNS; 4 indicates that the device is added via EHome protocol; 5 indicates that the device is added by serial port; 6 indicates that the device is added via Hik-Connect Domain.
 - **Address:** Edit the address of the device. If you set 0 as the adding mode, you should input the IP address or domain name of the device; if you set 2 as the adding mode, you should input the IP address of the PC that installs the IP Server; if you set 3 as the adding mode, you should input *www.hik-online.com*.
 - **Port:** Input the device port No. The default value is *8000*.
 - **Device Information:** If you set 0 as the adding mode, this field is not required; if you set 2 as the adding mode, input the device ID registered on the IP Server; if you set 3 as the adding mode, input the device domain name registered on HiDDNS server; if you set 4 as the adding mode, input the EHome account; if you set 6 as the adding mode, input the device serial No.
 - **User Name:** Input the device user name. By default, the user name is *admin*.
 - **Password:** Input the device password.



STRONG PASSWORD RECOMMENDED– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower

case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

- **Add Offline Device:** You can input 1 to enable adding the offline device, and then the software will automatically connect it when the offline device comes online. 0 indicates disabling this function.
- **Export to Group:** You can input 1 to create a group by the device name (nickname). All the channels of the device will be imported to the corresponding group by default. 0 indicates disabling this function.
- **Channel Number:** If you set 1 for Add Offline Device, input the channel number of the device. If you set 0 for Add Offline Device, this field is not required.
- **Alarm Input Number:** If you set 1 for Add Offline Device, input the alarm input number of the device. If you set 0 for Add Offline Device, this field is not required.
- **Serial Port No.:** If you set 5 as the adding mode, input the serial port No. for the access control device.
- **Baud Rate:** If you set 5 as the adding mode, input the baud rate of the access control device.
- **DIP:** If you set 5 as the adding mode, input the DIP address of the access control device.
- **Hik-Connect Account:** If you set 6 as the adding mode, input the Hik-Connect account.
- **Hik-Connect Password:** If you set 6 as the adding mode, input the Hik-Connect password.

5. Click  and select the template file.

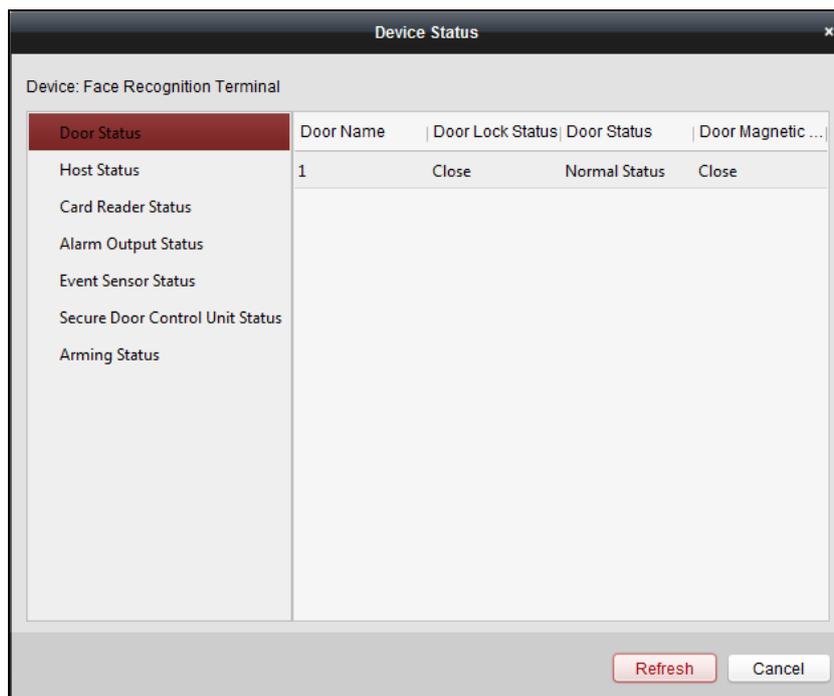
6. Click **Add** to import the devices.

The devices will be displayed on the device list for management after added successfully. You can check the resource usage, HDD status, recording status, and other information of the added devices on the list.

Click **Refresh All** to refresh the information of all added devices. You can also input the device name in the filter field for search.

6.3.2 Viewing Device Status

In the device list, you can select the device and then click **Device Status** button to view its status.



Note: The interface may differ from the picture displayed above. Refer to the actual interface when adopting this function.

- **Door Status:** The status of the connected door.
- **Host Status:** The status of the host, including Storage Battery Power Voltage, Device Power Supply Status, Multi-door Interlocking Status, Anti-passing Back Status, and Host Anti-Tamper Status.
- **Card Reader Status:** The status of card reader.

Note: If you use the card reader with RS-485 connection, you can view the status of online or offline. If you use the card reader with Wiegand connection, you can view the status of offline.
- **Alarm Output Status:** The alarm output status of each port.
- **Event Sensor Status:** The event sensor status of each port.
- **Secure Door Control Unit Status:** The online status and tamper status of the Secure Door Control Unit.
- **Arming Status:** The status of the device.

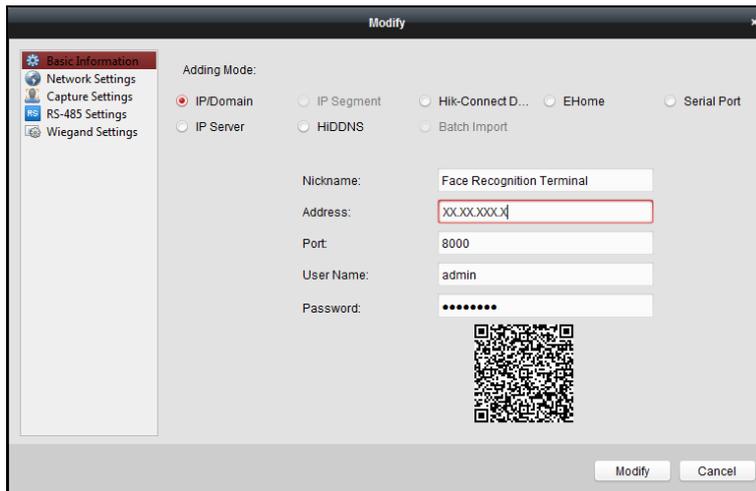
6.3.3 Editing Basic Information

Purpose:

After adding the access control device, you can edit the device basic information.

Steps:

1. Select the device in the device list.
2. Click **Modify** to pop up the modifying device information window.
3. Click **Basic Information** tab to enter the Basic Information interface.



4. Edit the device information, including the adding mode, the device name, the device IP address, port No., user name, and the password.

6.3.4 Network Settings

Purpose:

After adding the access control device, you can set the uploading mode, and set the network center and wireless communication center.

Select the device in the device list, and click **Modify** to pop up the modifying device information window.

Click **Network Settings** tab to enter the network settings interface.

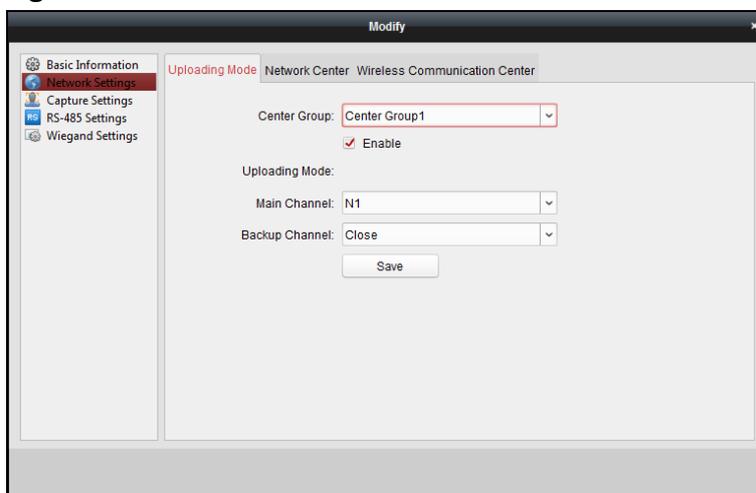
Uploading Mode Settings

Purpose :

You can set the center group for uploading the log via the EHome protocol.

Steps:

1. Click the **Uploading Mode** tab.



2. Select the center group in the dropdown list.

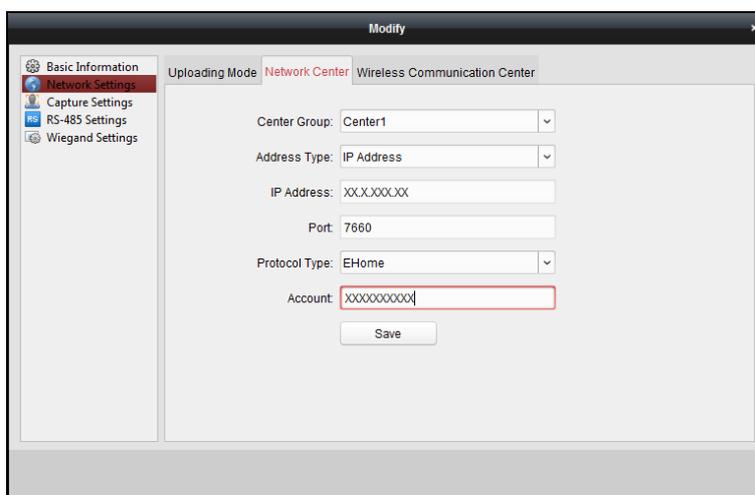
3. Check the **Enable** checkbox to enable the selected center group.
4. Select the uploading mode in the dropdown list. You can enable **N1/G1** for the main channel and the backup channel, or select **Close** to disable the main channel or the backup channel.
Note: The main channel and the backup channel cannot enable N1 or G1 at the same time.
5. Click **Save** button to save parameters.

Network Center Settings

You can set the account for EHome protocol in Network Settings page. Then you can add devices via EHome protocol.

Steps:

1. Click the **Network Center** tab.



2. Select the center group in the dropdown list.
3. Select the Address Type as **IP Address** or **Domain Name**.
4. Input IP address or domain name according to the address type.
5. Input the port No. for the protocol. By default, the port No. is 7660.
6. Select the protocol type as EHome.
7. Set an account name for the network center.

Note: The account should contain 1 to 32 characters and only letters and numbers are allowed.

8. Click **Save** button to save parameters.

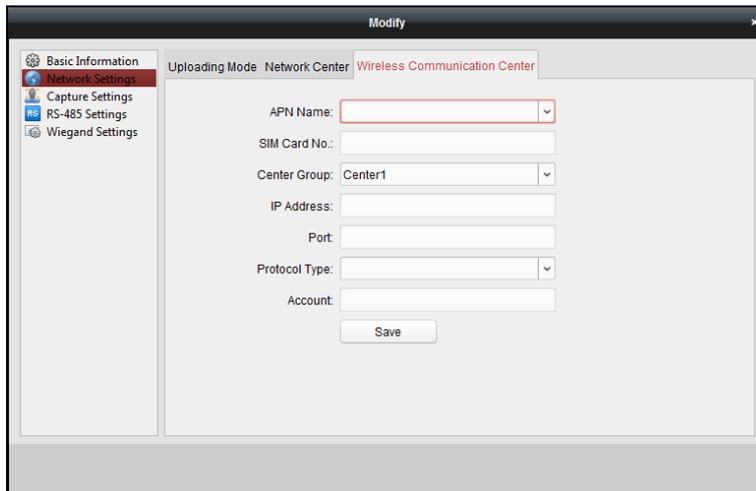
Notes:

- The port No. of the wireless network and wired network should be consistent with the port No. of EHome.
- You can set the domain name in Enable NTP area *Editing Time* section in Remote Configuration. For details, refer to *Time* in 6.3.8 Remote Configuration.

Wireless Communication Center Settings

Steps:

1. Click the **Wireless Communication Center** tab.



2. Select the APN name as CMNET or UNINET.
3. Input the SIM Card No.
4. Select the center group in the dropdown list.
5. Input the IP address and port No.
6. Select the protocol type as EHome. By default, the port No. for EHome is 7660.
7. Set an account name for the network center. A consistent account should be used in one platform.
8. Click **Save** button to save parameters.

Note: The port No. of the wireless network and wired network should be consistent with the port No. of EHome.

6.3.5 Capture Settings

You can set the parameters of capture linkage and manual capture.

Select the device in the device list, and click **Modify** to pop up the modifying device information window.

Click **Capture Settings** tab to enter the capture settings interface.

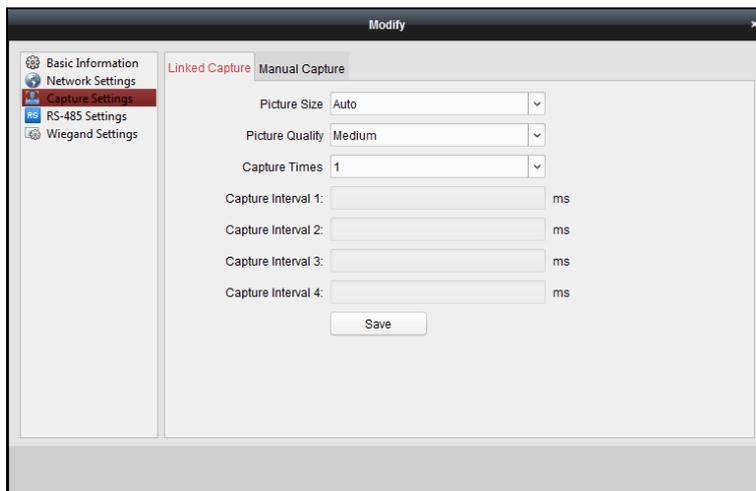
Notes:

- The **Capture Settings** should be supported by the device.
- Before setting the capture setting, you should configure the storage server for picture storage.

Linked Capture

Steps:

1. Select the **Linked Capture** tab.

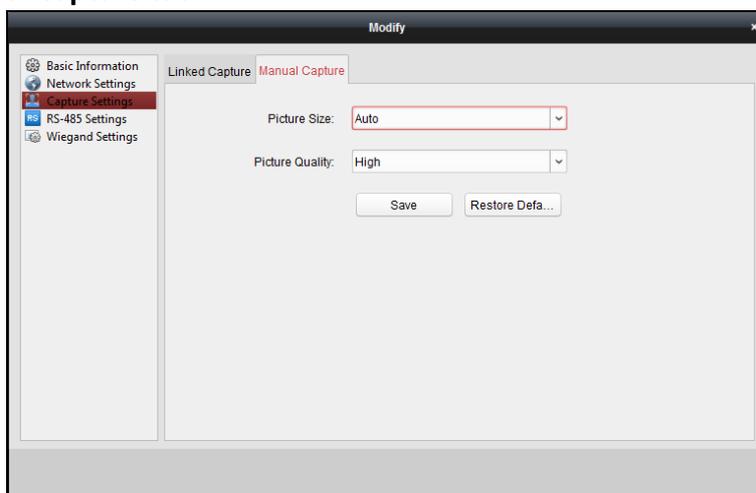


2. Set the picture size and quality.
3. Set the linked capture times once triggered.
4. Set the capture interval according to the capture times.
5. Click **Save** to save the settings.

Manual Capture

Steps:

1. Select the **Manual Capture** tab.



2. Select the resolution of the captured pictures from the dropdown list.
3. Select the picture quality as High, Medium, or Low.
4. Click **Save** to save the settings.
5. You can click **Restore Default Value** to restore the parameters to default settings.

6.3.6 RS-485 Settings

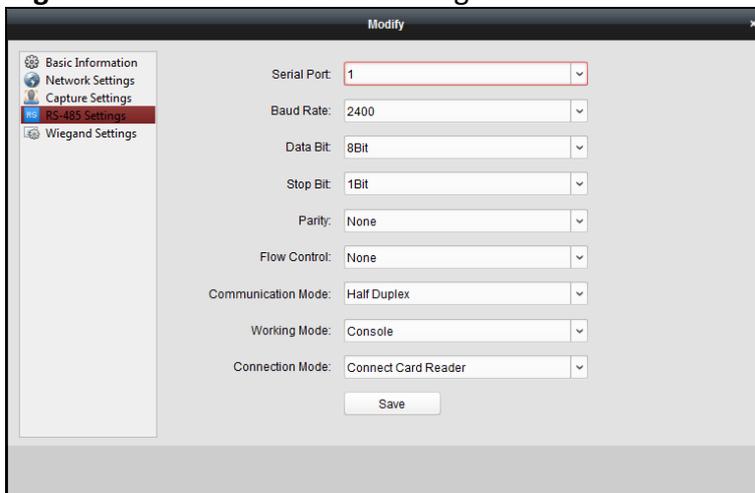
Purpose:

You can set the RS-485 parameters including the serial port, the baud rate, the data bit, the stop bit, the parity type, the communication mode, the working mode, and the connection mode.

Note: The RS-485 Settings should be supported by the device.

Steps:

1. Select the device in the device list, and click **Modify** to pop up the modifying device information window.
2. Click **RS-485 Settings** tab to enter the RS-485 settings interface.



2. Select the serial No. of the port from the dropdown list to set the RS-485 parameters.
3. Set the baud rate, data bit, the stop bit, parity, flow control, communication mode, working mode, and the connection mode in the dropdown list.
4. Click **Save** to save the settings and the configured parameters will be applied to the device automatically.

Note: After changing the working mode, the device will be rebooted. A prompt will be popped up after changing the working mode.

6.3.7 Wiegand Settings

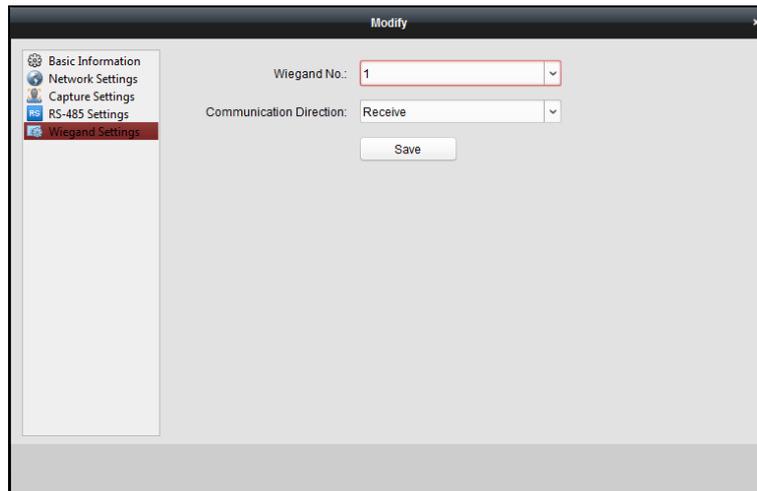
Purpose:

You can set the Wiegand channel and the communication mode.

Note: The Wiegand Settings should be supported by the device.

Steps:

1. Select the device in the device list, and click **Modify** to pop up the modifying device information window.
2. Click the **Wiegand Settings** tab to enter the Wiegand Settings interface.



3. Select the Wiegand channel No. and the communication mode in the dropdown list.
If you set the **Communication Direction** as **Send**, you are required to set the Wiegand Mode as Wiegand 26 or Wiegand 34.
4. Click **Save** to save the settings and the configured parameters will be applied to the device automatically.

Note: After changing the communication direction, the device will be rebooted. A prompt will be popped up after changing the communication direction.

6.3.8 Remote Configuration

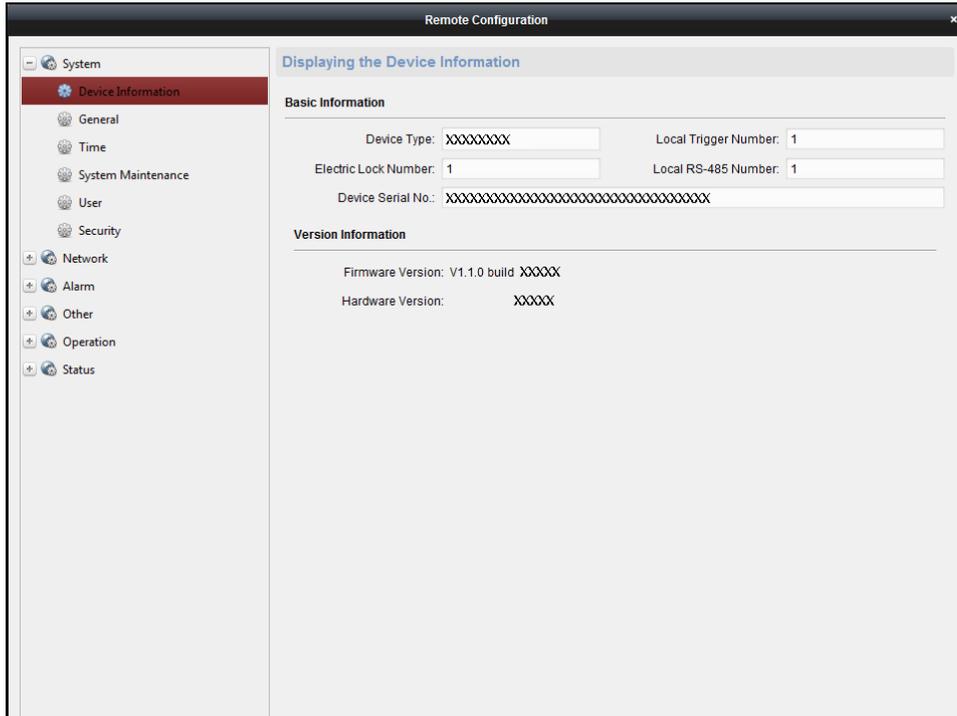
Purpose:

In the device list, select the device and click **Remote Configuration** button to enter the remote configuration interface. You can set the detailed parameters of the selected device.

Checking Device Information

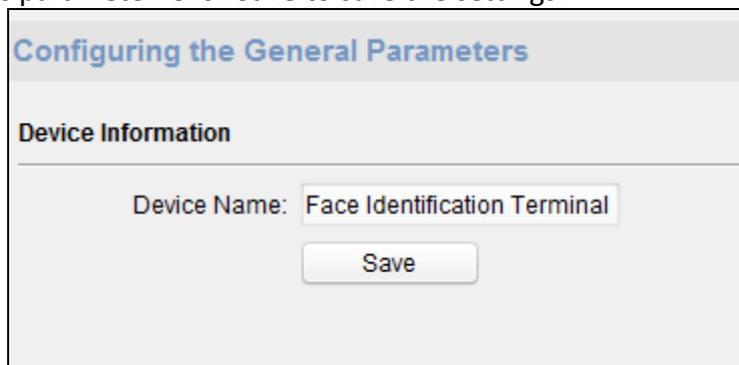
Steps:

1. In the device list, you can click **Remote Configuration** to enter the remote configuration interface.
2. Click **System** -> **Device Information** to check the device basic information and the device version information.



Editing Device Name

In the Remote Configuration interface, click **System** -> **General** to configure the device name and overwrite record files parameter. Click **Save** to save the settings.



Editing Time

Steps:

1. In the Remote Configuration interface, click **System** -> **Time** to configure the time zone.
2. (Optional) Check **Enable NTP** and configure the NTP server address, the NTP port, and the synchronization interval.
3. (Optional) Check **Enable DST** and configure the DST star time, end time and the bias.
4. Click **Save** to save the settings.

Configuring the Time Settings (e.g., NTP, DST)

Time Zone

Select Time Zone: (GMT+08:00) Beijing, Hong Kong, Perth, Singa... ▾

Enable NTP

Server Address:

NTP Port: 123

Sync Interval: 0 Minute(s)

Enable DST

Start Time: April ▾ First Week ▾ Sun ▾ 2 : 00

End Time: October ▾ Last Week ▾ Sun ▾ 2 : 00

DST Bias: 60 min ▾

Save

Setting System Maintenance

Purpose:

You can reboot the device remotely, restore the device to default settings, import configuration file, upgrade the device, etc.

Steps:

1. In the Remote Configuration interface, click **System** -> **System Maintenance**.

2. Click **Reboot** to reboot the device.

Or click **Restore Default Settings** to restore the device settings to the default ones, excluding the IP address.

Or click **Restore All** to restore the device parameters to the default ones. The device should be activated after restoring.

Note: The configuration file contains the device parameters.

Or click **Import Configuration File** to import the configuration file from the local PC to the device.

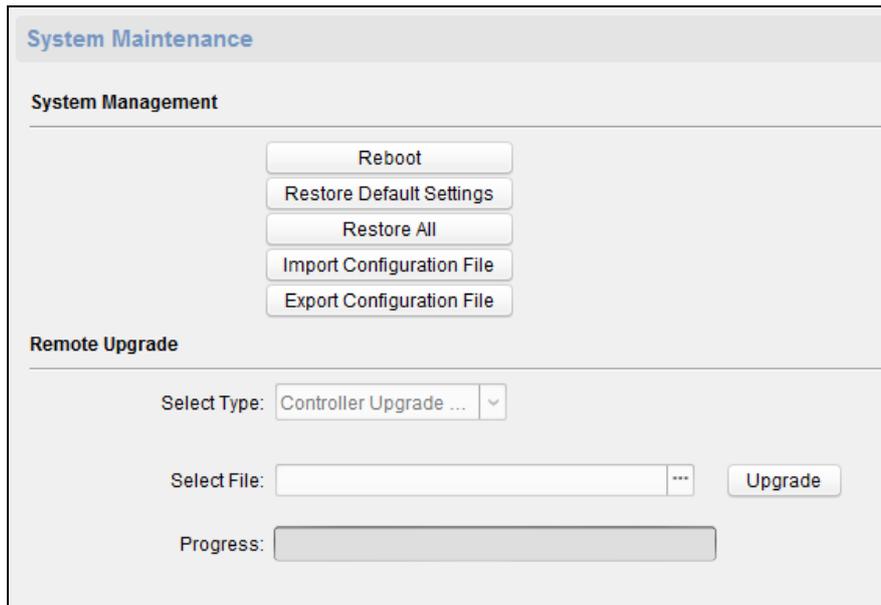
Or click **Export Configuration File** to export the configuration file from the device to the local PC

Note: The configuration file contains the device parameters.

3. You can also remote upgrade the device.

1) In the Remote Upgrade part, click to select the upgrade file.

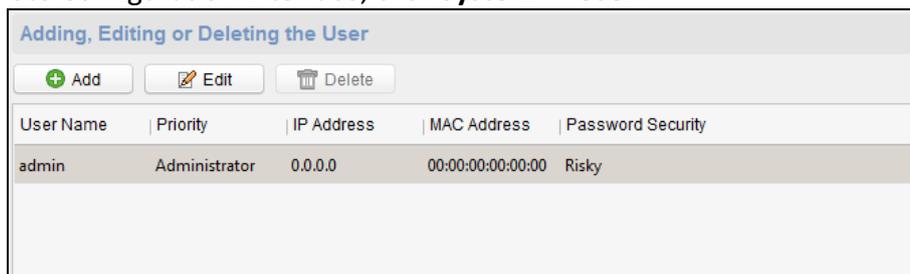
2) Click **Upgrade** to start upgrading.



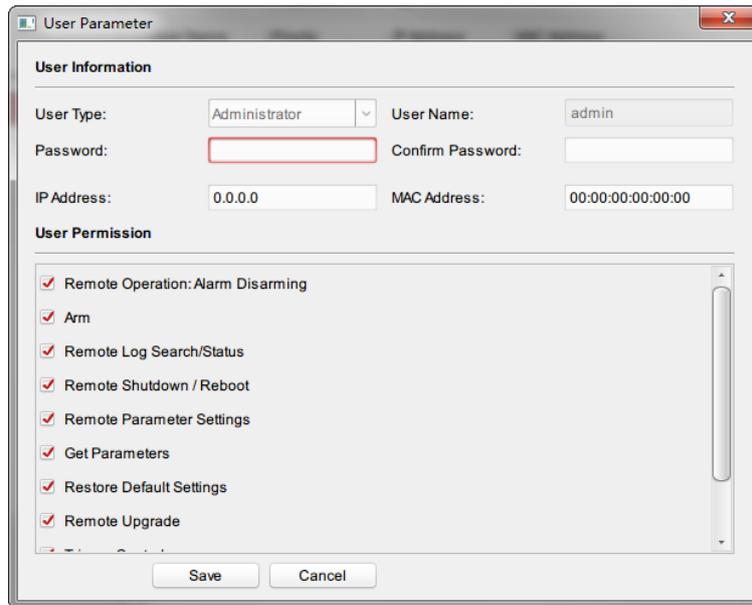
Managing User

Steps:

1. In the Remote Configuration interface, click **System** -> **User**.



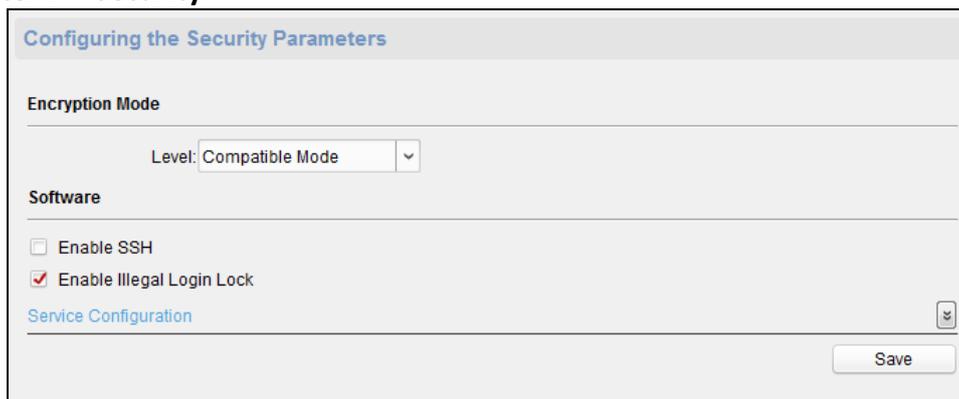
2. Click **Add** to add the user (Do not support by the elevator controller.).
Or select a user in the user list and click **Edit** to edit the user. You are able to edit the user password, the IP address, the MAC address and the user permission. Click **OK** to confirm editing.



Setting Security

Steps:

1. Click **System** -> **Security**.



2. Select the encryption mode in the dropdown list.
You can select **Compatible Mode** or **Encryption Mode**.
3. Click **Save** to save the settings.

Configuring Network Parameters

Click **Network** -> **General**. You can configure the NIC type, the IPv4 address, the subnet mask (IPv4), the default gateway (IPv4), MTU address, MTU, and the device port. Click **Save** to save the settings.

Configuring Upload Method

Purpose :

You can set the center group for uploading the log via the EHome protocol.

Steps:

1. Click **Network** -> **Report Strategy**.

2. Select a Center Group from the drop-down list.
3. Check the **Enable** check box.
4. Set the uploading method.
You can set the main channel and the backup channel.
5. Click **Settings** on the right of the channel field to set the detailed information.
6. Click **Save** to save the settings.

Configuring Network Center

You can set the notify surveillance center, center’s IP address, the port No., the Protocol (EHome), and the EHome account user name to transmit data via EHome protocol. For details about EHome protocol’s transmission, refer to *Network Center Settings* in *Chapter 6.3.4 Network Settings*. Click **Save** to save the settings or click

The screenshot shows a dialog box titled "Configuring the Network Center Parameters". It contains the following fields and controls:

- Notify Surveillance Center: A dropdown menu with "Network Center1" selected.
- IP Address: A text input field containing "0.0.0.0".
- Port: A text input field containing "0".
- Protocol Type: A dropdown menu.
- User Name: A text input field.
- At the bottom, there are two buttons: "Save" and "Cancel".

Configuring Advanced Network

Click **Network** -> **Advanced Settings**. You can configure the DNS IP address 1, the DNS IP address 2, the security control platform IP, and the security control platform port. Click **Save** to save the settings.

The screenshot shows a dialog box titled "Configuring the Advanced Network Settings". It contains the following fields and controls:

- DNS1 IP Address: A text input field containing "0.0.0.0".
- DNS2 IP Address: A text input field containing "0.0.0.0".
- Security Control Platform...: A text input field containing "0.0.0.0".
- Security Control Platform...: A text input field containing "0".
- At the bottom, there is a "Save" button.

Configuring Wi-Fi

Steps:

1. Click **Network** -> **Wi-Fi**.

2. Check **Enable** to enable the Wi-Fi function.
3. Input the hot spot name.
Or you can click **Select...** to select a network.
4. Input the Wi-Fi password.
5. (Optional) Click **Refresh** to refresh the network status.
6. (Optional) Select the NIC Type.
7. (Optional) Select to uncheck **Enable DHCP** and set the IP address, the subnet mask, the default gateway, the MAC address, the DNS1 IP Address, and the DNS2 IP address.
8. Click **Save** to save the settings.

Configuring Relay Parameters

Steps:

1. Click **Alarm** -> **Relay**.
You can view the relay parameters.

| Relay | Name | Output Delay(s) | Zone Linkage | Settings |
|-------|------|-----------------|--------------|----------|
| 1 | | 3 | None | |

2. Click the to pop up the Relay Parameters Settings window.

3. Set the relay name and the output delay.
4. Click **Save** to save the paramters.
Or click **Copy to...** to copy the relay information to other relays.

Configuring Access Control Parameters

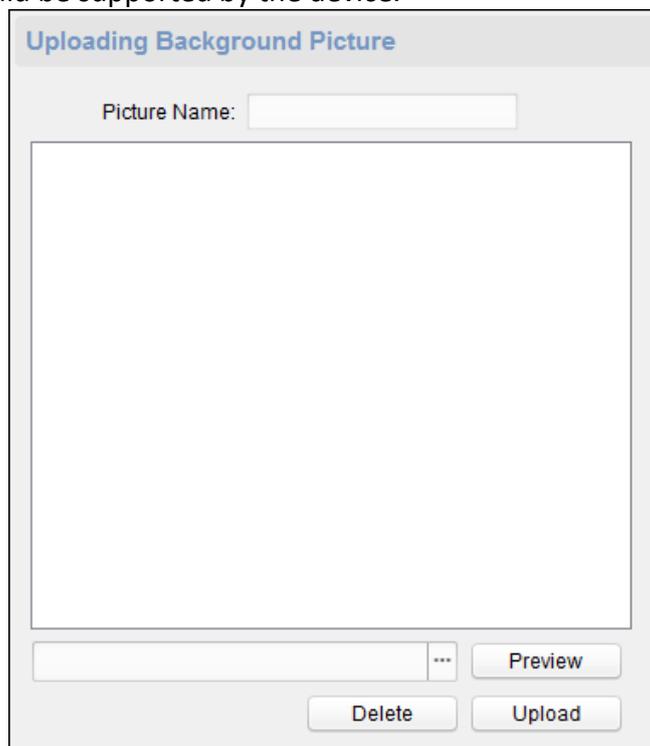
Steps:

1. In the Remote Configuration interface, click **Other** -> **Access Control Parameters**.
2. Select and check the item as you desired.
 - **Overlay User Information on Picture:** Display the user infomration on the captured picture.
 - **Enable Voice Prompt:** If check the checkbox, the voice prompt is enabled in the device. You can hear the voice prompt when operating in the device.
 - **Upload Pictures after Capturing:** If check the checkbox, the pictures captured by linked camera will be upload to the system automatically.
 - **Save Captured Pictures:** If you check the checkbox, you can save the picture capured by linked camera to the device. You can view the picture in *6.9 Searching Access Control Event*.
3. Click **Save** to save the settings.

Uploading Background Picture

Click **Other** -> **Picture Upload**. Click to select the picture from the local. You can also click **Preview** to preview the picture. Click **Upload** to upload the picture.

Note: The function should be supported by the device.



Configuring Face Detection Parameters

Click **Other** -> **Face Detection**. You can check the **Enable** checkbox to enable the device face detection function.

After you enable the function, the device should detect the face while authenticating. Or the

authentication will be failed.

Note: Only devices with video function support this function.



Operating Relay

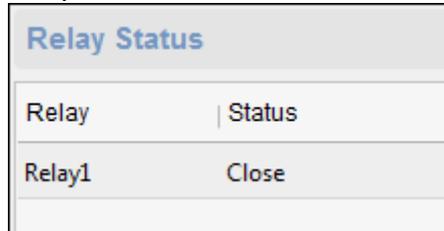
Steps:

1. Click **Operation** -> **Relay**.
You can view the relay status.
2. Check the relay checkbox
3. Click **Open** or **Close** to open/close the relay.
4. (Optional) Click **Refresh** to refresh the relay status.



Viewing Relay Status

Click **Status** -> **Relay** to view the relay status.



6.4 Organization Management

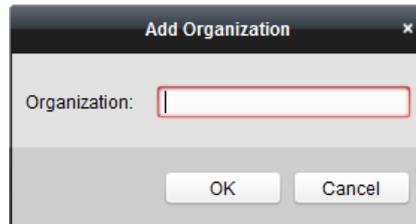
You can add, edit, or delete the organization as desired.

Click  tab to enter the Person and Card Management interface.

6.4.1 Adding Organization

Steps:

1. In the organization list on the left, you should add a top organization as the parent organization of all organizations.
Click **Add** button to pop up the adding organization interface.



2. Input the Organization Name as desired.
 3. Click **OK** to save the adding.
 4. You can add multiple levels of organizations according to the actual needs.
To add sub organizations, select the parent organization and click **Add**.
Repeat *Step 2* and *3* to add the sub organization.
Then the added organization will be the sub-organization of the upper-level organization.
- Note:** Up to 10 levels of organizations can be created.

6.4.2 Modifying and Deleting Organization

You can select the added organization and click **Modify** to modify its name.
You can select an organization, and click **Delete** button to delete it.

Notes:

- The lower-level organizations will be deleted as well if you delete an organization.
- Make sure there is no person added under the organization, or the organization cannot be deleted.

6.5 Person Management

After adding the organization, you can add person to the organization and manage the added person such as issuing cards in batch, importing and exporting person information in batch, etc.

Note: Up to 10,000 persons or cards can be added.

6.5.1 Adding Person

Adding Person (Basic Information)

Steps:

1. Select an organization in the organization list and click **Add** button on the Person panel to pop up the adding person dialog.

2. The Person No. will be generated automatically and is not editable.
3. Input the basic information including person name, gender, phone No., birthday details, and email address.
4. Click **Upload Picture** to select the person picture from the local PC to upload it to the client.
Note: The picture should be in *.jpg format.
5. (Optional) You can also click **Take Photo** to take the person’s photo with the PC camera.
6. Click **OK** to finish adding.

Adding Person (Detailed Information)

Steps:

1. In the Add Person interface, click **Details** tab.

2. Input the detailed information of the person, including person’s ID type, ID No., country, etc., according to actual needs.
 - **Linked Device:** You can bind the indoor station to the person.

Note: If you select **Analog Indoor Station** in the Linked Device, the **Door Station** field will display and you are required to select the door station to communicate with the analog indoor station.

➤ **Room No.:** You can input the room No. of the person.

3. Click **OK** to save the settings.

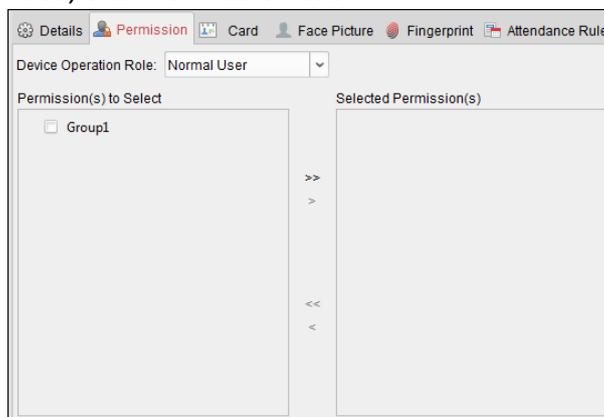
Adding Person (Permission)

You can assign the permissions (including operation permissions of access control device and access control permissions) to the person when adding person.

Note: For setting the access control permission, refer to *Chapter 6.7 Permission Configuration*.

Steps:

1. In the Add Person interface, click **Permission** tab.



2. In the Device Operation Role field, select the role of operating the access control device.

Normal User: The person has the permission to check-in/out on the device, pass the access control point, etc.

Administrator: The person has the normal user permission, as well as permission to configure the device, including adding normal user, etc.

3. In the Permission(s) to Select list, all the configured permissions display.

Check the permission(s) checkbox(es) and click > to add to the Selected Permission(s) list.

(Optional) You can click >> to add all the displayed permissions to the Selected Permission(s) list.

(Optional) In the Selected Permission(s) list, select the selected permission and click < to remove it. You can also click << to remove all the selected permissions.

4. Click **OK** to save the settings.

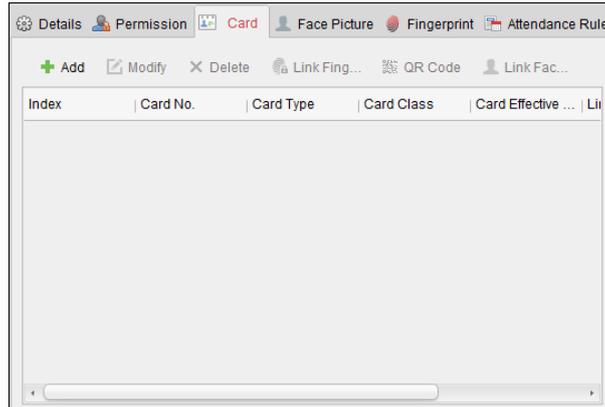
Adding Person (Card)

You can add card and issue the card to the person.

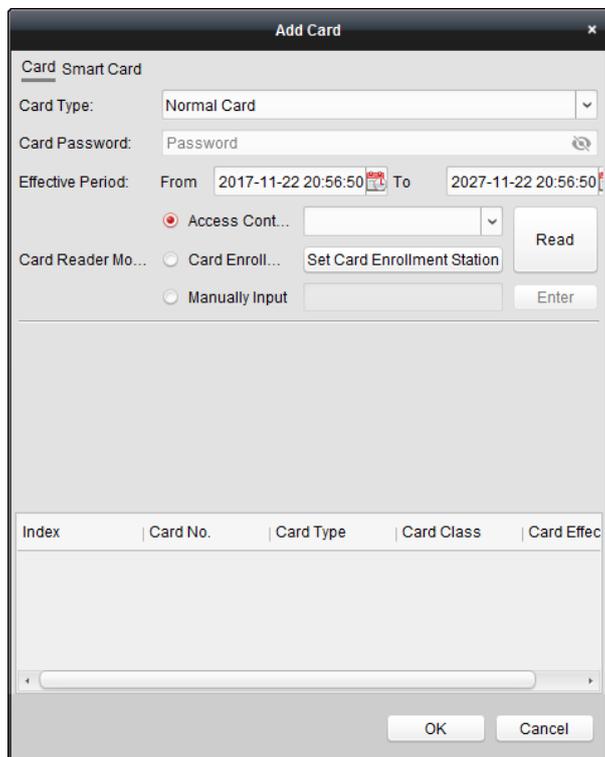
➤ **Adding General Card**

Steps:

1. In the Add Person interface, click **Card** tab.



2. Click **Add** to pop up the Add Card dialog.
3. Click **Card** to enter the Card tab.



4. Select the card type according to actual needs.
 - **Normal Card**
 - **Card for Disabled Person:** The door will remain open for the configured time period for the card holder.
 - **Card in Blacklist:** The card swiping action will be uploaded and the door cannot be opened.
 - **Patrol Card:** The card swiping action can be used for checking the working status of the inspection staff. The access permission of the inspection staff is configurable.
 - **Duress Card:** The door can be opened by swiping the duress card when there is duress. At the same time, the client can report the duress event.
 - **Super Card:** The card is valid for all the doors of the controller during the configured schedule.

- **Visitor Card:** The card is assigned for visitors. For the Visitor Card, you can set the **Max. Swipe Times**.

Note: The Max. Swipe Times should be between 0 and 255. When setting as 0, it means the card swiping is unlimited.

5. Input the password of the card itself in the Card Password field. The card password should contain 4 to 8 digits.

Note: The password will be required when the card holder swiping the card to get enter to or exit from the door if you enable the card reader authentication mode as **Card and Password**, **Password and Fingerprint**, and **Card, Password, and Fingerprint**. For details, *Chapter 6.8.2 Card Reader Authentication*.

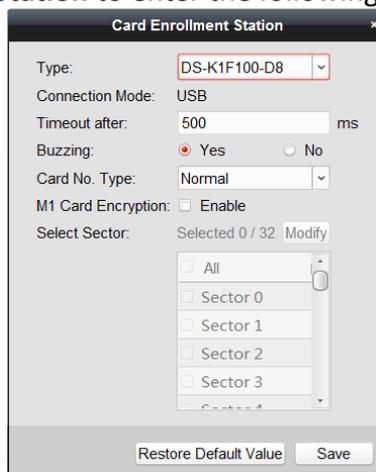
6. Click  to set the effective time and expiry time of the card.

7. Select the Card Reader Mode for reading the card No.

- **Access Controller Reader:** Place the card on the reader of the Access Controller and click **Read** to get the card No.

- **Card Enrollment Station:** Place the card on the Card Enrollment Station and click **Read** to get the card No.

Note: The Card Enrollment Station should connect with the PC running the client. You can click **Set Card Enrollment Station** to enter the following dialog.



- 1) Select the Card Enrollment Station type.

Note: Currently, the supported card reader types include DS-K1F100-D8, DS-K1F100-M, DS-K1F100-D8E, and DS-K1F180-D8E.

- 2) Set the serial port No., the baud rate, the timeout value, the buzzing, or the card No. type.

If the card is M1 card, and if you need to enable the M1 Card Encryption function, you should check **Enable** checkbox of M1 Card Encryption and click **Modify** to select the sector.

- 3) Click **Save** button to save the settings.

You can click **Restore Default Value** button to restore the defaults.

- **Manually Input:** Input the card No. and click **Enter** to input the card No.

8. Click **OK** and the card(s) will be issued to the person.

9. (Optional) You can select the added card and click **Modify** or **Delete** to edit or delete the card.

10. (Optional) You can generate and save the card QR code for QR code authentication.
 - 1) Select an added card and click **QR Code** to generate the card QR code.
 - 2) In the QR code pop-up window, click **Download** to save the QR code to the local PC.
You can print the QR code for authentication on the specified device.
Note: The device should support the QR code authentication function. For details about setting the QR code authentication function, see the specified device user manual.
11. (Optional) You can click **Link Fingerprint** to link the card with the person's fingerprint, so that the person can place the finger on the scanner instead of swiping card when passing the door.
12. (Optional) You can click **Link Face Picture** to link the card with the face picture, so that the person can pass the door by scanning the face via the device instead of swiping card when passing the door.
13. Click **OK** to save the settings.

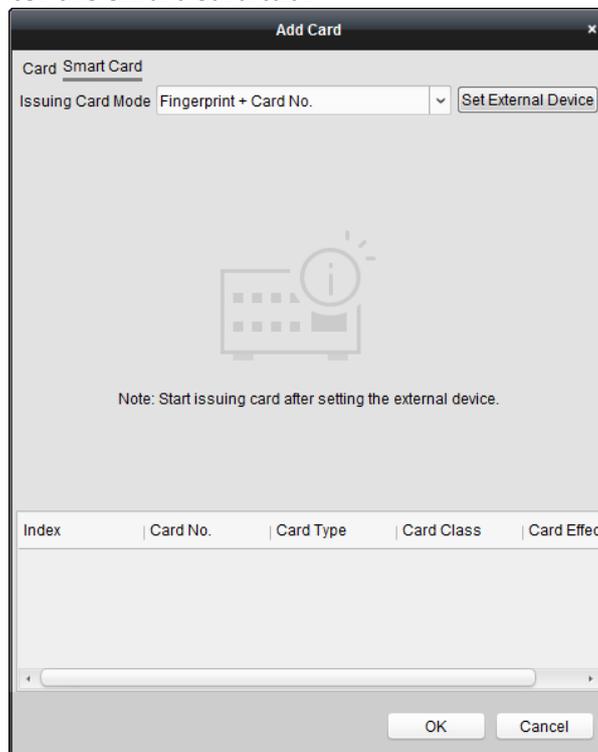
➤ **Adding Smart Card**

Purpose:

You can store fingerprints and ID card information in the smart card. When authenticating, after swiping the smart card on the device, you can scan your fingerprint or swipe your ID card on the device. The device will compare the fingerprint or ID card information in the smart card with the ones collected. If you use the smart card for authentication, there is no need to store the fingerprints or ID card information in the device in advance.

Steps:

1. In the Add Person page, set the person basic information.
2. Click **Card** to enter the card tab.
3. Click **Add** to pop up the Add Card dialog.
4. Click **Smart Card** to enter the Smart Card tab.



5. Select an issuing card mode from the dropdown list.

6. Set the external device.
 - 1) Click **Set External Device** to enter the Set External Device page.
 - 2) (Optional) Select the issuing card mode again.
 - 3) Set a card enrollment station.
 - 4) If you select "Fingerprint + Card No." as the issuing mode, set the fingerprint recorder model.
If you select "ID Card No. + Card No." as the issuing mode, set the ID card reader model.
If you select "Fingerprint + ID Card No. + Card No." as the issuing mode, set the fingerprint recorder model and the ID card reader model.
 - 5) Click **OK** save the settings.
7. Select a card type for the smart card.
 - **Normal Card**
 - **Card for Disabled Person:** The door will remain open for the configured time period for the card holder.
 - **Card in Blacklist:** The card swiping action will be uploaded and the door cannot be opened.
 - **Patrol Card:** The card swiping action can be used for checking the working status of the inspection staff. The access permission of the inspection staff is configurable.
 - **Duress Card:** The door can be opened by swiping the duress card when there is duress. At the same time, the client can report the duress event.
 - **Super Card:** The card is valid for all the doors of the controller during the configured schedule.
 - **Visitor Card:** The card is assigned for visitors. For the Visitor Card, you can set the Max. Swipe Times.
Note: The Max. Swipe Times should be between 0 and 255. When setting as 0, it means the card swiping is unlimited.
 - **Dismiss Card:** Swipe the card to dismiss alarm.
8. Set other parameters of the card.
 - 1) Set the card password.
 - 2) Set the card effective date.
 - 3) Scan your fingerprint and swipe your ID card according to the prompt.
 - 4) Swipe the smart card.
The added card information will display in the list below.
9. Click **OK** and the card(s) will be issued to the person.
10. (Optional) Select the added card and click **Modify** or **Delete** to edit or delete the card.
11. (Optional) Generate and save the card QR code for QR code authentication.
 - 1) Select an added card and click **QR Code** to generate the card QR code.
 - 2) In the QR code pop-up window, click **Download** to save the QR code to the local PC.
You can print the QR code for authentication on the specified device.
Note: The device should support the QR code authentication function. For details about setting the QR code authentication function, see the specified device user manual.
12. (Optional) Click **Link Fingerprint** to link the card with the person's fingerprint, so that the person can place the finger on the scanner instead of swiping card when passing the door.
13. (Optional) Click **Link Face Picture** to link the card with the face picture, so that the person can pass the door by scanning the face via the device instead of swiping card when passing the

door.

14. Click **OK** to save the settings.

Adding Person (Fingerprint)

Steps:

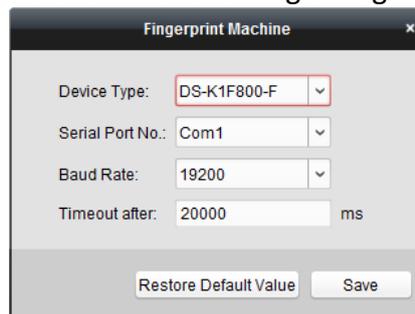
1. In the Add Person interface, click **Fingerprint** tab.



2. Select **Local Collection** as desired.

3. Before inputting the fingerprint, you should connect the fingerprint machine to the PC and set its parameters first.

Click **Set Fingerprint Machine** to enter the following dialog box.



1) Select the device type.

Currently, the supported fingerprint machine types include DS-K1F800-F, DS-K1F810-F, DS-K1F820-F, and DS-K1F181-F.

2) For fingerprint machine type DS-K1F800-F, you can set the serial port number, baud rate, and overtime parameters of the fingerprint machine.

3) Click **Save** button to save the settings.

You can click **Restore Default Value** button to restore the default settings.

Notes:

- The serial port number should correspond to the serial port number of PC. You can check the serial port number in Device Manager in your PC.
- The baud rate should be set according to the external fingerprint card reader. The default value is 19200.
- **Timeout after** field refers to the valid fingerprint collecting time. If the user does not input a fingerprint or inputs a fingerprint unsuccessfully, the device will indicate that the fingerprint collecting is over.

4. Click **Start** button, click to select the fingerprint to start collecting.

5. Lift and rest the corresponding fingerprint on the fingerprint scanner twice to collect the fingerprint to the client.
6. (Optional) You can also click **Remote Collection** to collect fingerprint from the device.
Note: The function should be supported by the device.
7. (Optional) You can select the registered fingerprint and click **Delete** to delete it.
You can click **Clear** to clear all fingerprints.
8. Click **OK** to save the fingerprints.

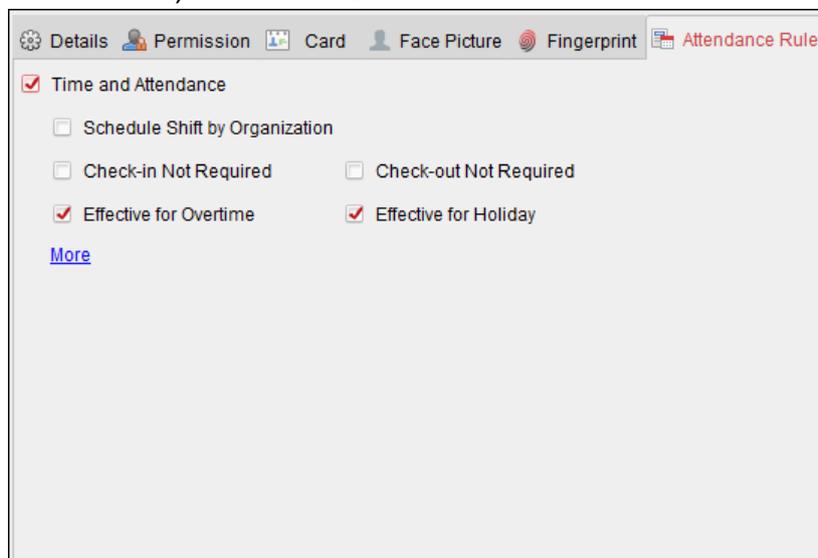
Adding Person (Attendance Rule)

You can set the attendance rule for the person.

Note: This tab page will display when you select **Non-Residence** mode in the application scene when running the software for the first time.

Steps:

1. In the Add Person interface, click **Attendance Rule** tab.



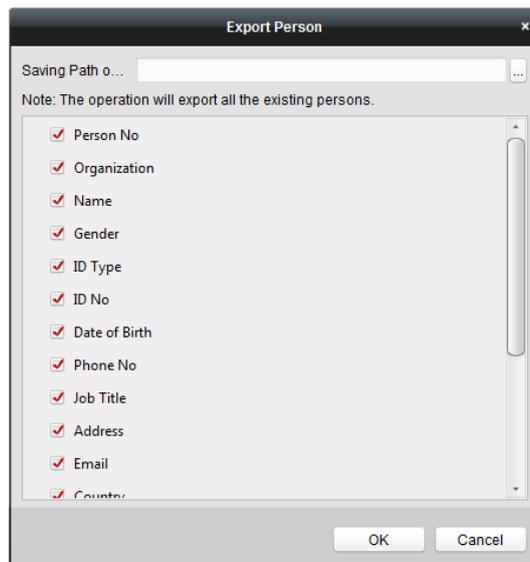
2. If the person joins in the time and attendance, check the **Time and Attendance** checkbox to enable this function for the person. Then the person's card swiping records will be recorded and analyzed for time and attendance.
For details about Time and Attendance, click **More** to go to the Time and Attendance module.
3. Click **OK** to save the settings.

Importing and Exporting Person Information

The person information can be imported and exported in batch.

Steps:

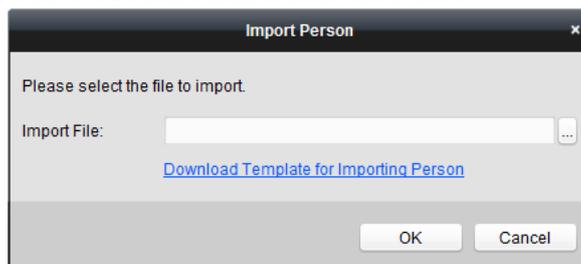
1. **Exporting Person:** You can export the added persons' information in Excel format to the local PC.
 - 1) After adding the person, you can click **Export Person** button in the Person and Card tab to pop up the following dialog.
 - 2) Click  to select the path of saving the exported Excel file.
 - 3) Check the checkboxes to select the person information to export.



4) Click **OK** to start exporting.

2. **Importing Person:** You can import the Excel file with persons information in batch from the local PC

1) click **Import Person** button in the Person and Card tab.



2) You can click **Download Template for Importing Person** to download the template first.

3) Input the person information to the downloaded template.

4) Click  to select the Excel file with person information.

5) Click **OK** to start importing.

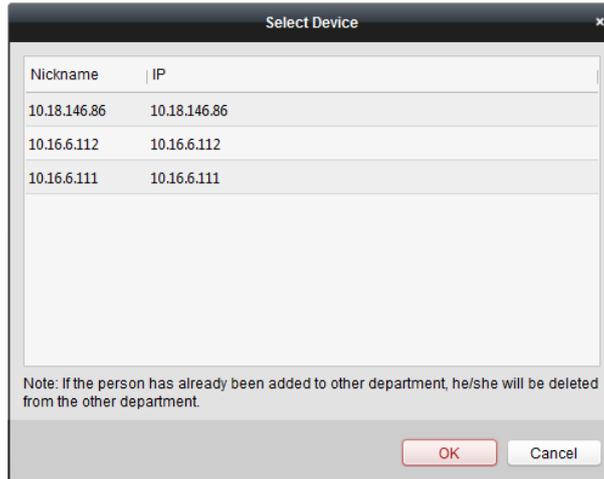
Getting Person Information from Access Control Device

If the added access control device has been configured with person information (including person details, fingerprint, issued card information), you can get the person information from the device and import to the client for further operation.

Note: This function is only supported by the device the connection method of which is TCP/IP when adding the device.

Steps:

1. In the organization list on the left, click to select an organization to import the persons.
2. Click **Get Person** button to pop up the following dialog box.



- The added access control device will be displayed.
- Click to select the device and then click **OK** to start getting the person information from the device.

You can also double click the device name to start getting the person information.

Notes:

- The person information, including person details, person’s fingerprint information (if configured), and the linked card (if configured), will be imported to the selected organization.
- If the person name stored in the device is empty, the person name will be filled with the issued card No. after importing to the client.
- The gender of the persons will be **Male** by default.
- Up to 10000 persons can be imported.

6.5.2 Managing Person

Modifying and Deleting Person

To modify the person information and attendance rule, click or in the Operation column, or select the person and click **Modify** to open the editing person dialog.

You can click to view the person’s card swiping records.

To delete the person, select a person and click **Delete** to delete it.

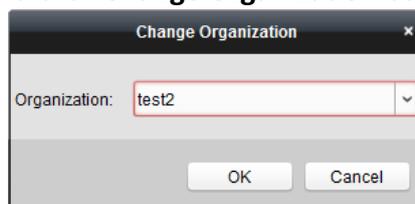
Note: If a card is issued to the current person, the linkage will be invalid after the person is deleted.

Changing Person to Other Organization

You can move the person to another organization if needed.

Steps:

- Select the person in the list and click **Change Organization** button.



2. Select the organization to move the person to.
3. Click **OK** to save the settings.

Searching Person

You can input the keyword of card No. or person name in the search field, and click **Search** to search the person.

You can input the card No. by clicking **Read** to get the card No. via the connected card enrollment station.

You can click **Set Card Enrollment Station** in the dropdown list to set the parameters.

6.5.3 Issuing Card in Batch

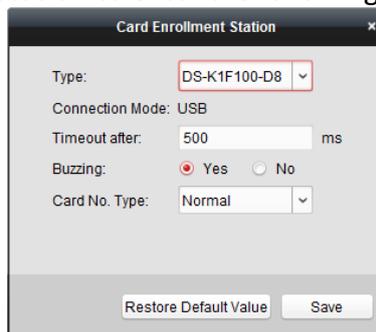
You can issue multiple cards for the person with no card issued in batch.

Steps:

1. Click **Issue Card in Batch** button to enter the following dialog.
All the added person with no card issued will display in the Person(s) with No Card Issued list.

2. Select the card type according to actual needs.
Note: For details about the card type, refer to *Adding Person*.
3. Input the password of the card itself in the Card Password field. The card password should contain 4 to 8 digits.
Note: The password will be required when the card holder swiping the card to get enter to or exit from the door if you enable the card reader authentication mode as **Card and Password**, **Password and Fingerprint**, and **Card, Password, and Fingerprint**. For details, refer to *Chapter 6.8.2 Card Reader Authentication*.
4. Input the card quantity issued for each person.
For example, if the Card Quantity is 3, you can read or enter three card No. for each person.

5. Click  to set the effective time and expiry time of the card.
6. In the Person(s) with No Card Issued list on the left, select the person to issue card.
Note: You can click on the Person Name, Gender, and Department column to sort the persons according to actual needs.
7. Select the Card Reader Mode for reading the card No.
 - **Access Controller Reader:** Place the card on the reader of the Access Controller and click **Read** to get the card No.
 - **Card Enrollment Station:** Place the card on the Card Enrollment Station and click **Read** to get the card No.
Note: The Card Enrollment Station should connect with the PC running the client. You can click **Set Card Enrollment Station** to enter the following dialog.



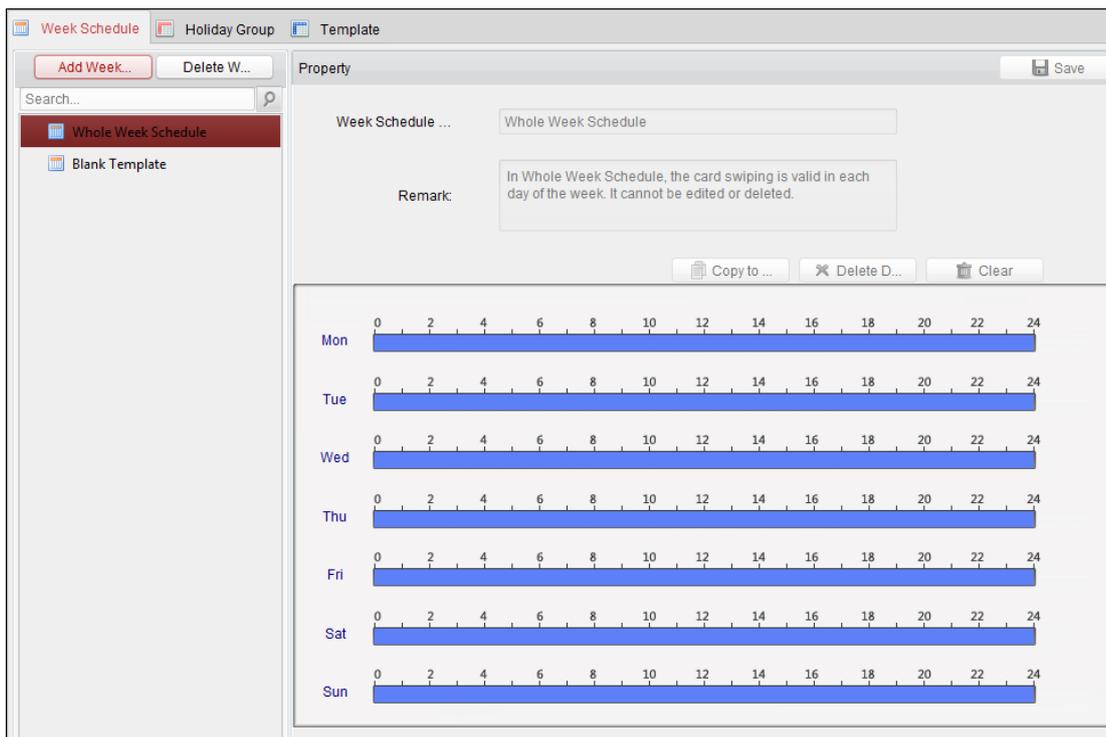
- 1) Select the Card Enrollment Station type.
Note: Currently, the supported card reader types include DS-K1F100-D8, DS-K1F100-M, DS-K1F100-D8E, and DS-K1F180-D8E.
 - 2) Set the parameters about the connected card enrollment station.
If the card is M1 card, and if you need to enable the M1 Card Encryption function, you should check **Enable** checkbox of M1 Card Encryption and click **Modify** to select the sector.
 - 3) Click **Save** button to save the settings.
You can click **Restore Default Value** button to restore the defaults.
- **Manually Input:** Input the card No. and click **Enter** to input the card No.
8. After issuing the card to the person, the person and card information will display in the Person(s) with Card Issued list.
 9. Click **OK** to save the settings.

6.6 Schedule and Template

Purpose:

You can configure the template including week schedule and holiday schedule. After setting the templates, you can adopt the configured templates to access control permissions when setting the permission, so that the access control permission will take effect in the time durations of the template.

Click  to enter the schedule and template interface.



You can manage the schedule of access control permission including Week Schedule, Holiday Schedule, and Template. For permission settings, please refer to *Chapter 6.7 Permission Configuration*.

6.6.1 Week Schedule

Click **Week Schedule** tab to enter the Week Schedule Management interface.

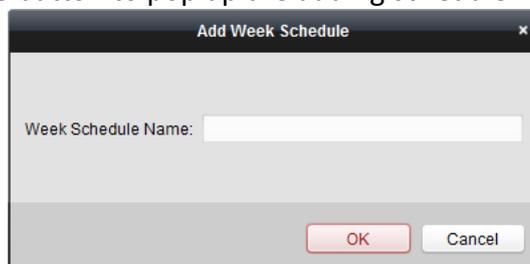
The client defines two kinds of week plan by default: **Whole Week Schedule** and **Blank Schedule**, which cannot be deleted and edited.

- **Whole Week Schedule:** Card swiping is valid on each day of the week.
- **Blank Schedule:** Card swiping is invalid on each day of the week.

You can perform the following steps to define custom schedules on your demand.

Steps:

1. Click **Add Week Schedule** button to pop up the adding schedule interface.



2. Input the name of week schedule and click **OK** button to add the week schedule.
3. Select the added week schedule in the schedule list and you can view its property on the right. You can edit the week schedule name and input the remark information.
4. On the week schedule, click and drag on a day to draw on the schedule, which means in that

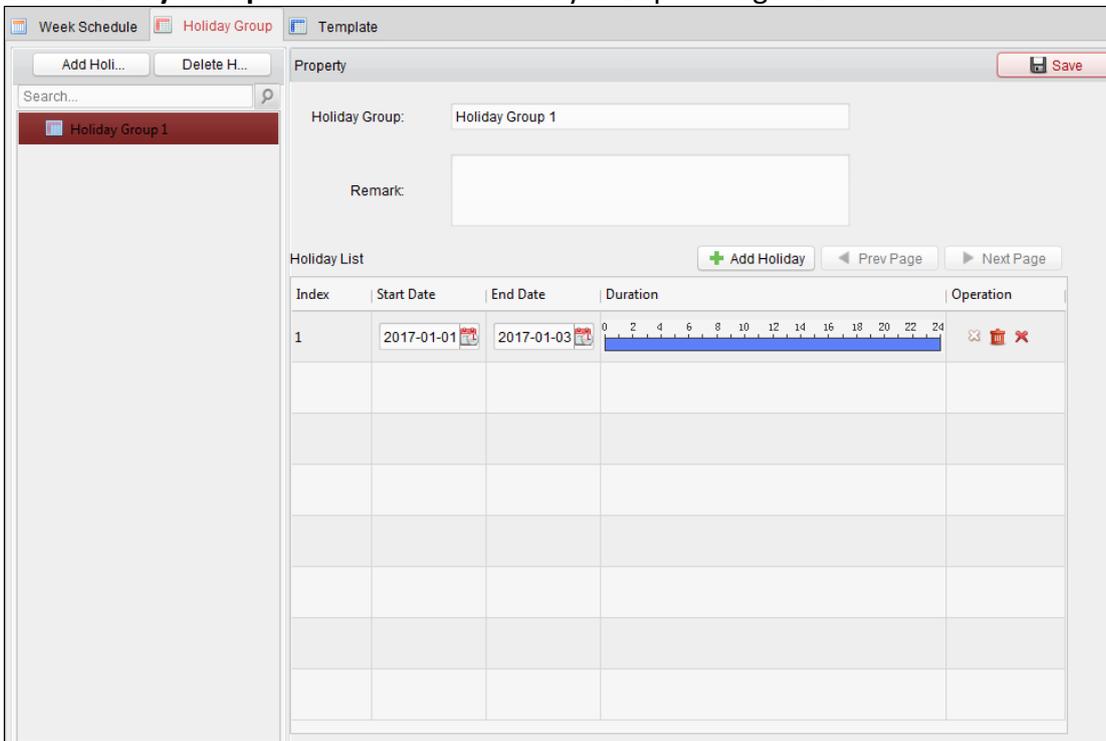
period of time, the configured permission is activated.

Note: Up to 8 time periods can be set for each day in the schedule.

5. When the cursor turns to , you can move the selected time bar you just edited. You can also edit the displayed time point to set the accurate time period. When the cursor turns to , you can lengthen or shorten the selected time bar.
6. Optionally, you can select the schedule time bar, and then click **Delete Duration** to delete the selected time bar, or click **Clear** to delete all the time bars, or click **Copy to Week** to copy the time bar settings to the whole week.
7. Click **Save** to save the settings.

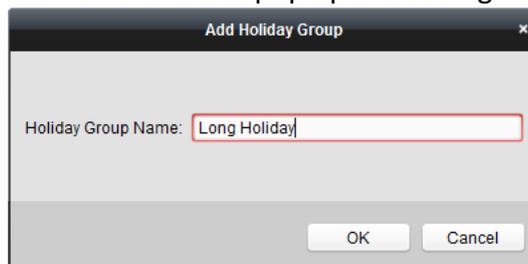
6.6.2 Holiday Group

Click **Holiday Group** tab to enter the Holiday Group Management interface.



Steps:

1. Click **Add Holiday Group** button on the left to pop up the adding holiday group interface.

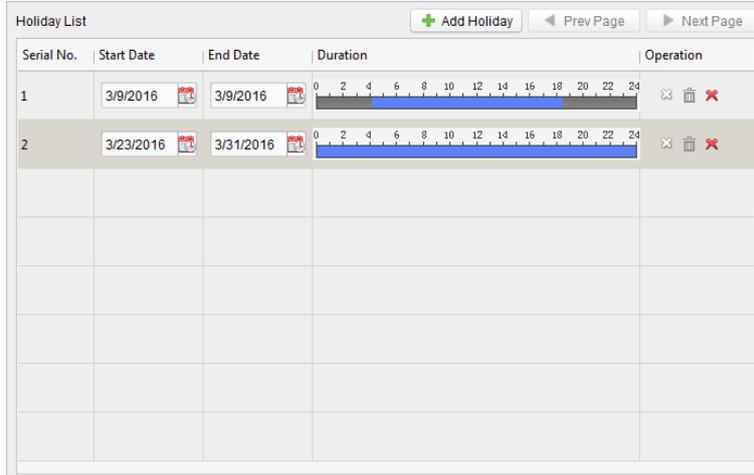


2. Input the name of holiday group in the text filed and click **OK** button to add the holiday group.
3. Select the added holiday group and you can edit the holiday group name and input the remark

information.

- Click **Add Holiday** icon on the right to add a holiday period to the holiday list and configure the duration of the holiday.

Note: Up to 16 holidays can be added to one holiday group.



- On the period schedule, click and drag to draw the period, which means in that period of time, the configured permission is activated.

Note: Up to 8 time durations can be set for each period in the schedule.

- When the cursor turns to , you can move the selected time bar you just edited. You can also edit the displayed time point to set the accurate time period.
- When the cursor turns to , you can lengthen or shorten the selected time bar.
- Optionally, you can select the schedule time bar, and then click  to delete the selected time bar, or click  to delete all the time bars of the holiday, or click  to delete the holiday directly.

- Click **Save** to save the settings.

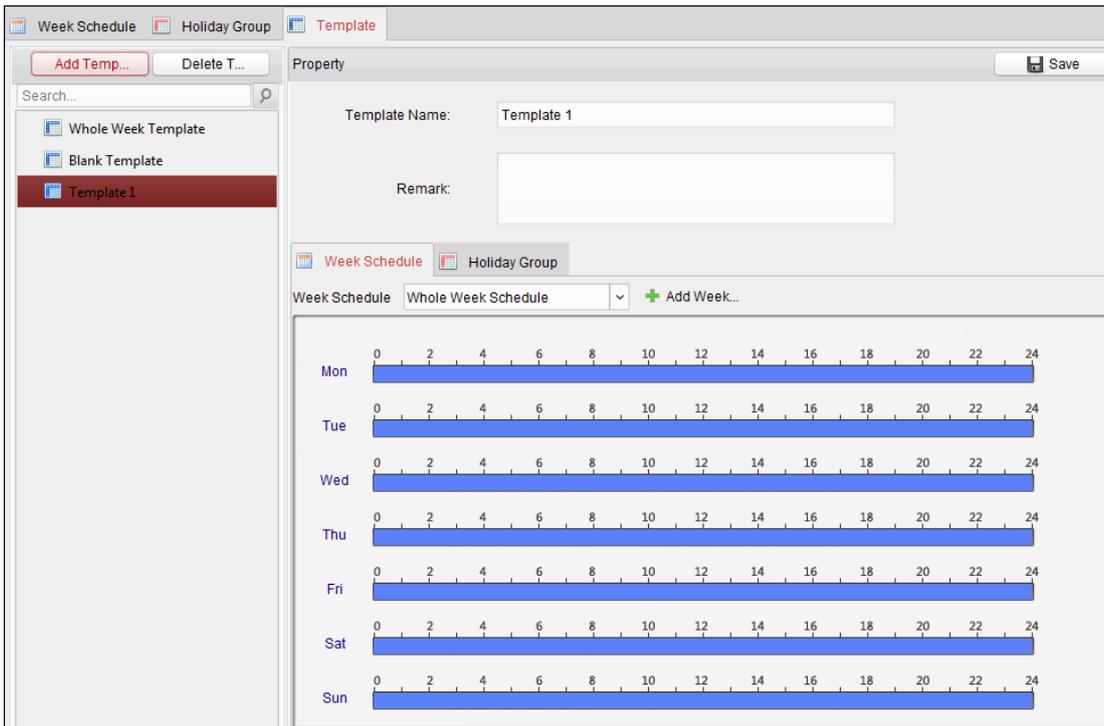
Note: The holidays cannot be overlapped with each other.

6.6.3 Template

After setting the week schedule and holiday group, you can configure the template which contains week schedule and holiday group schedule.

Note: The priority of holiday group schedule is higher than the week schedule.

Click **Template** tab to enter the Template Management interface.



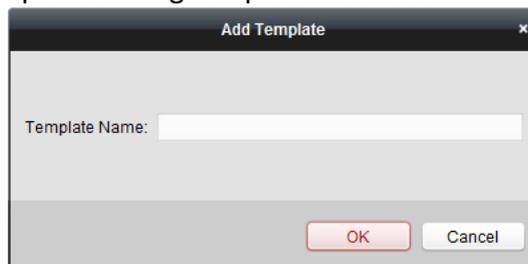
There are two pre-defined templates by default: **Whole Week Template** and **Blank Template**, which cannot be deleted and edited.

- **Whole Week Template:** The card swiping is valid on each day of the week and it has no holiday group schedule.
- **Blank Template:** The card swiping is invalid on each day of the week and it has no holiday group schedule.

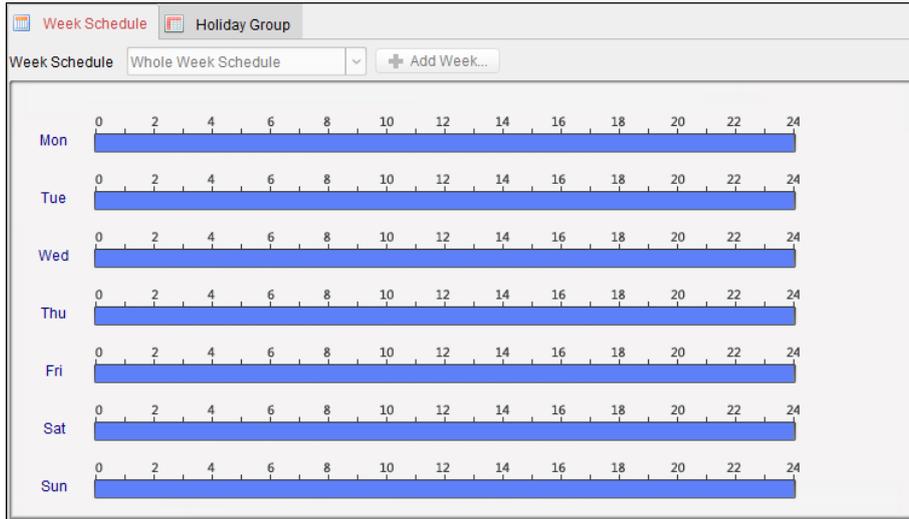
You can define custom templates on your demand.

Steps:

1. Click **Add Template** to pop up the adding template interface.

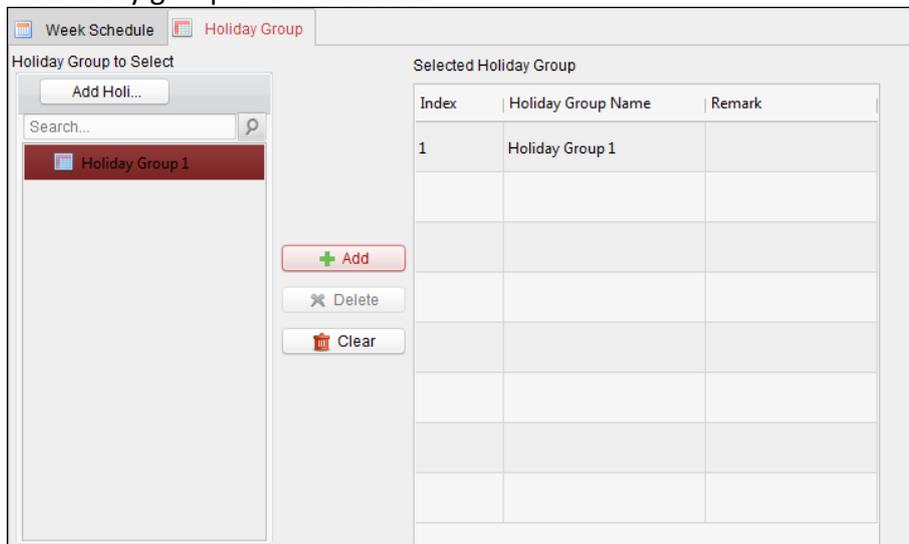


2. Input the template name in the text field and click **OK** button to add the template.
3. Select the added template and you can edit its property on the right. You can edit the template name and input the remark information.
4. Select a week schedule to apply to the schedule.
Click **Week Schedule** tab and select a schedule in the dropdown list.
You can also click **Add Week Schedule** to add a new week schedule. For details, refer to *Chapter 6.6.1 Week Schedule*.



5. Select holiday groups to apply to the schedule.

Note: Up to 4 holiday groups can be added.



Click to select a holiday group in the list and click **Add** to add it to the template. You can also click **Add Holiday Group** to add a new one. For details, refer to *Chapter 6.6.2 Holiday Group*. You can click to select an added holiday group in the right-side list and click **Delete** to delete it. You can click **Clear** to delete all the added holiday groups.

6. Click **Save** button to save the settings.

6.7 Permission Configuration

In Permission Configuration module, you can add, edit, and delete the access control permission, and then apply the permission settings to the device to take effect.

Click  icon to enter the Access Control Permission interface.

| Permission Na... | Template | Person | Door | Details | Status |
|------------------|-----------------|--------|------------------|-------------------------|-------------|
| Permission 1 | Whole Week T... | Wendy | Floor1_10.17.... | Details | Not Applied |

6.7.1 Adding Permission

Purpose:

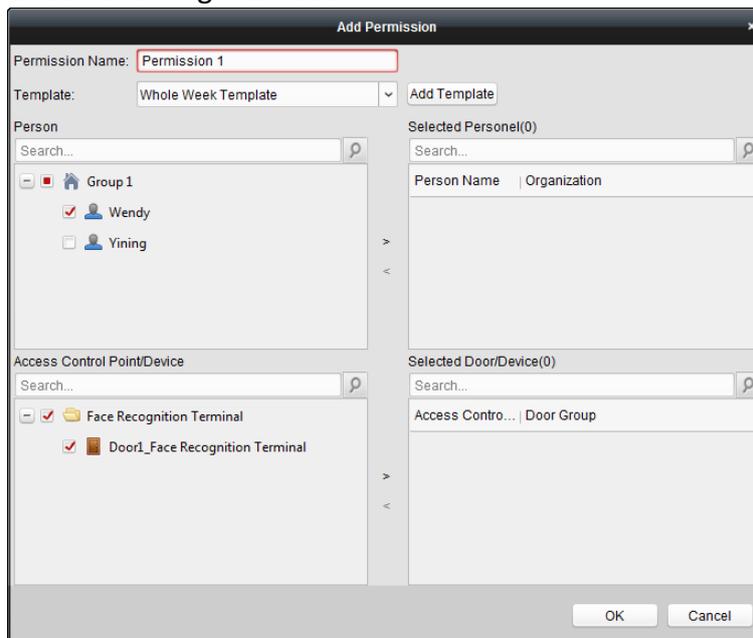
You can assign permission for persons to enter/exist the access control points (doors) in this section.

Notes:

- You can add up to 4 permissions to one access control point of one device.
- You can add up to 128 permissions in total.

Steps:

1. Click **Add** icon to enter following interface.



2. In the Permission Name field, input the name for the permission as desired.
3. Click on the dropdown menu to select a template for the permission.

Note: You should configure the template before permission settings. You can click **Add Template** button to add the template. Refer to *Chapter 6.6 Schedule and Template* for details.

4. In the Person list, all the added persons display. Check the checkbox(es) to select person(s) and click > to add to the Selected Person list. (Optional) You can select the person in Selected Person list and click < to cancel the selection.
5. In the Access Control Point/Device list, all the added access control points (doors) and door stations will display. Check the checkbox(es) to select door(s) or door station(s) and click > to add to the selected list.

(Optional) You can select the door or door station in the selected list and click < to cancel the selection.

6. Click **OK** button to complete the permission adding. The selected person will have the permission to enter/exit the selected door/door station with their linked card(s) or fingerprints.
7. (Optional) after adding the permission, you can click **Details** to modify it. Or you can select the permission and click **Modify** to modify.
You can select the added permission in the list and click **Delete** to delete it.

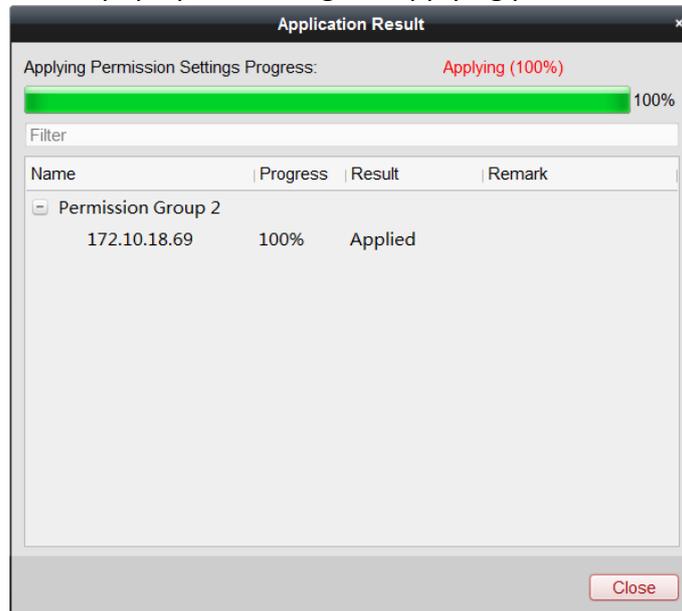
6.7.2 Applying Permission

Purpose:

After configuring the permissions, you should apply the added permission to the access control device to take effect.

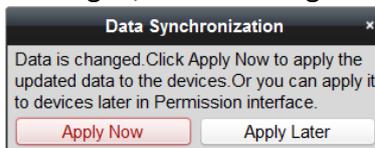
Steps:

1. Select the permission(s) to apply to the access control device.
To select multiple permissions, you can hold the *Ctrl* or *Shift* key and select permissions.
2. Click **Apply All** to start applying all the selected permission(s) to the access control device or door station.
You can also click **Apply Changes** to apply the changed part of the selected permission(s) to the device(s).
3. The following window will pop up, indicating the applying permission result.



Notes:

- When the permission settings are changed, the following hint box will pop up.



You can click **Apply Now** to apply the changed permissions to the device.

Or you can click **Apply Later** to apply the changes later in the Permission interface.

- The permission changes include changes of schedule and template, permission settings, person's permission settings, and related person settings (including card No., fingerprint, face picture, linkage between card No. and fingerprint, linkage between card No. and fingerprint, card password, card effective period, etc).

6.8 Advanced Functions

Purpose:

After configuring the person, template, and access control permission, you can configure the advanced functions of access control application, such as access control parameters, authentication password, and opening door with first card, anti-passing back, etc.

Note: The advanced functions should be supported by the device.

Click  icon to enter the following interface.

6.8.1 Access Control Parameters

Purpose:

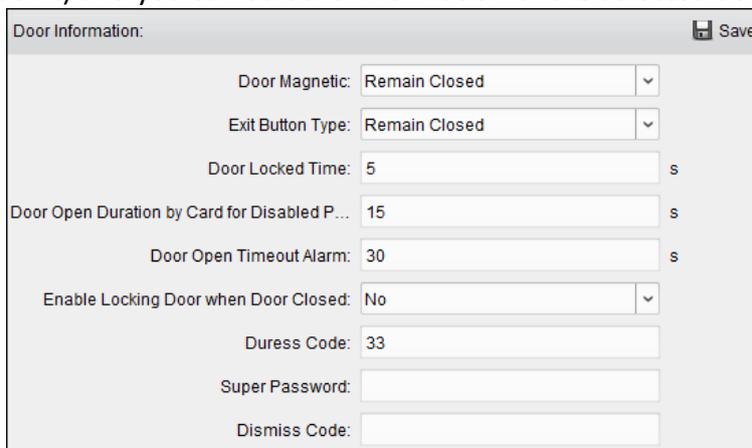
After adding the access control device, you can configure its access control point (door)'s parameters, and its card readers' parameters.

Click **Access Control Parameters** tab to enter the parameters settings interface.

Door Parameters

Steps:

1. In the controller list on the left, click  to expand the access control device, select the door (access control point) and you can edit the information of the selected door on the right.



2. You can editing the following parameters:
 - **Door Magnetic:** The Door Magnetic is in the status of **Remain Closed** (excluding special conditions).
 - **Exit Button Type:** The Exit Button Type is in the status of **Remain Open** (excluding special conditions).
 - **Door Locked Time:** After swiping the normal card and relay action, the timer for locking the door starts working.
 - **Door Open Duration by Card for Disabled Person:** The door magnetic can be enabled with appropriate delay after disabled person swipes the card.
 - **Door Open Timeout Alarm:** The alarm can be triggered if the door has not been closed.
 - **Enable Locking Door when Door Closed:** The door can be locked once it is closed even if the Door Locked Time is not reached.
 - **Duress Code:** The door can open by inputting the duress code when there is duress. At the same time, the client can report the duress event.
 - **Super Password:** The specific person can open the door by inputting the super password.
 - **Dismiss Code:** Set the dismiss code and you can use the dismiss code to stop the buzzer of the card reader.

Notes:

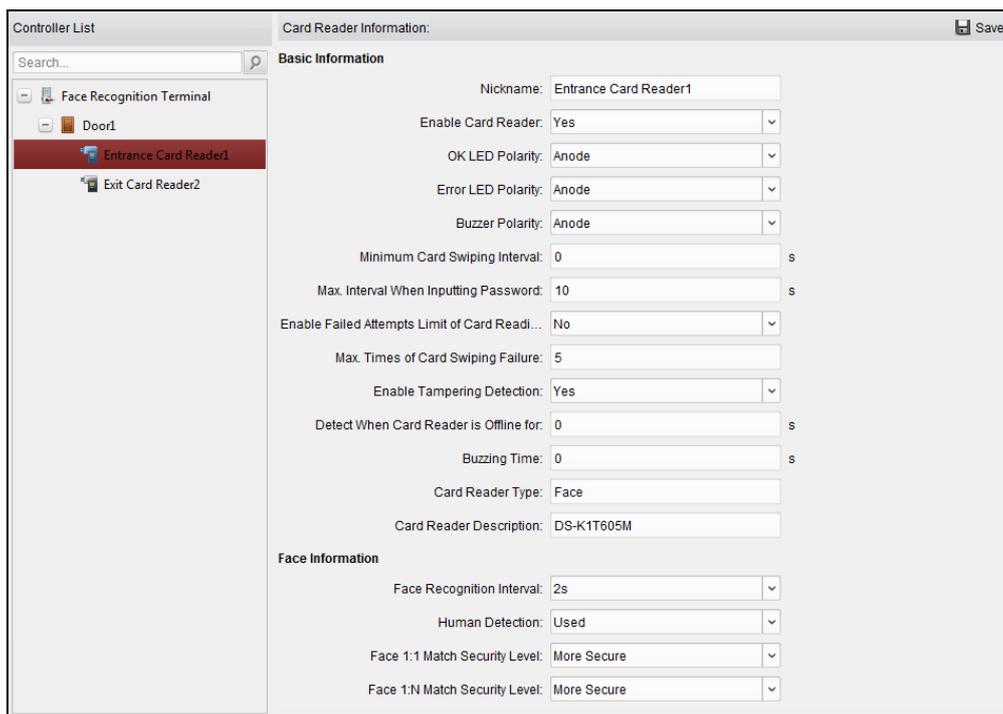
- The duress code, Super password, and dismiss code should be different.
- The duress code, super password, and the dismiss code should be different from the authentication password.
- The duress code, super password, and the dismiss code should contain 4 to 8 numerics.

3. Click **Save** button to save parameters.

Card Reader Parameters

Steps:

1. In the device list on the left, click  to expand the door, select the card reader name and you can edit the card reader parameters on the right.



2. You can edit the following parameters:

- **Nickname:** Edit the card reader name as desired.
- **Enable Card Reader:** Select **Yes** to enable the card reader.
- **OK LED Polarity:** Select the OK LED Polarity of the card reader mainboard.
- **Error LED Polarity:** Select the Error LED Polarity of the card reader mainboard.
- **Buzzer Polarity:** Select the Buzzer LED Polarity of the card reader mainboard.
- **Minimum Card Swiping Interval:** If the interval between card swiping of the same card is less than the set value, the card swiping is invalid. You can set it as 0 to 255.
- **Max. Interval When Inputting Password:** When you inputting the password on the card reader, if the interval between pressing two digits is larger than the set value, the digits you pressed before will be cleared automatically.
- **Enable Failed Attempts Limit of Card Reading:** Enable to report alarm when the card reading attempts reach the set value.
- **Max. Times of Card Swiping Failure:** Set the max. failure attempts of reading card.
- **Enable Tampering Detection:** Enable the anti-tamper detection for the card reader.
- **Detect When Card Reader is Offline for:** When the access control device cannot connect with the card reader for longer than the set time, the card reader will turn offline automatically.
- **Buzzing Time:** Set the card reader buzzing time. The available time ranges from 0 to 5999s. 0 represents continuous buzzing.
- **Card Reader Type:** Get the card reader's type.
- **Card Reader Description:** Get the card reader description.
- **Face Recognition Interval:** The time interval between two continuous face recognitions when authenticating. By default, it is 2s.

- **Live Face Detection:** Enable or disable the live face detection function. If enabling the function, the device can recognize whether the person is a live one or not.
- **1:1 Security Level:** Set the matching security level when authenticating via 1:1 matching mode.
- **1:N Security Level:** Set the matching security level when authenticating via 1:N matching mode.

6.8.2 Card Reader Authentication

Purpose:

You can set the passing rules for the card reader of the access control device.

Steps:

1. Click **Card Reader Authentication** tab and select a card reader on the left.
2. Click **Configuration** button to select the card reader authentication modes for setting the schedule.

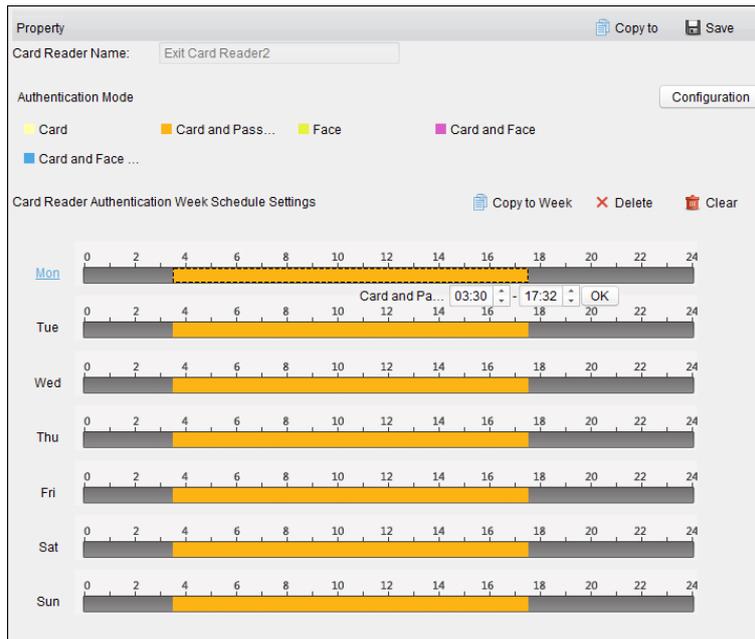
Notes:

- The available authentication modes depend on the device type.
- Password refers to the card password set when issuing the card to the person in *Chapter 6.5 Person Management*.

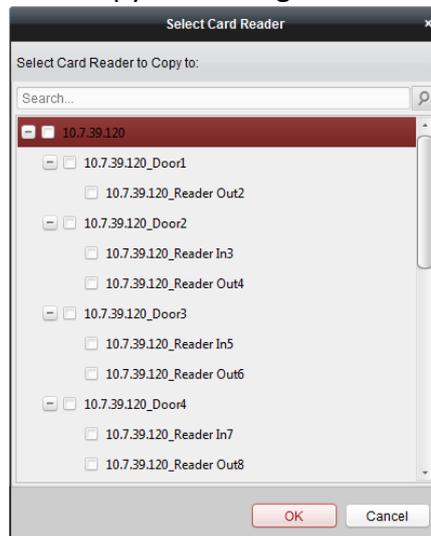
- 1) Select the modes and click  to add to the selected modes list.
You can click  or  to adjust the display order.



- 2) Click **OK** to confirm the selection.
3. After selecting the modes, the selected modes will display as icons.
Click the icon to select a card reader authentication mode.
4. Click and drag your mouse on a day to draw a color bar on the schedule, which means in that period of time, the card reader authentication is valid.



5. Repeat the above step to set other time periods.
 Or you can select a configured day and click **Copy to Week** button to copy the same settings to the whole week.
 (Optional) You can click **Delete** button to delete the selected time period or click **Clear** button to delete all the configured time periods.
6. (Optional) Click **Copy to** button to copy the settings to other card readers.



7. Click **Save** button to save parameters.

6.8.3 Multiple Authentication

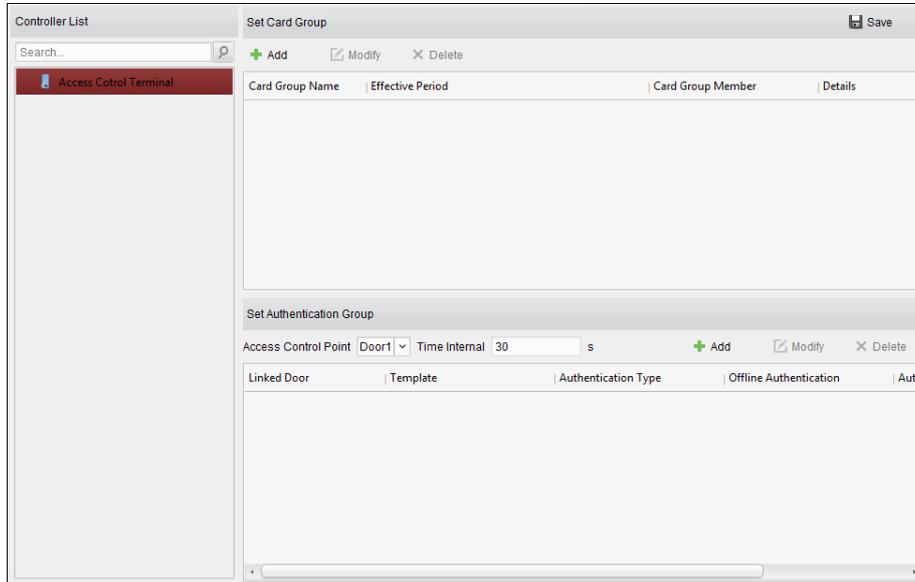
Purpose:

You can manage the cards by group and set the authentication for multiple cards for one access control point (door).

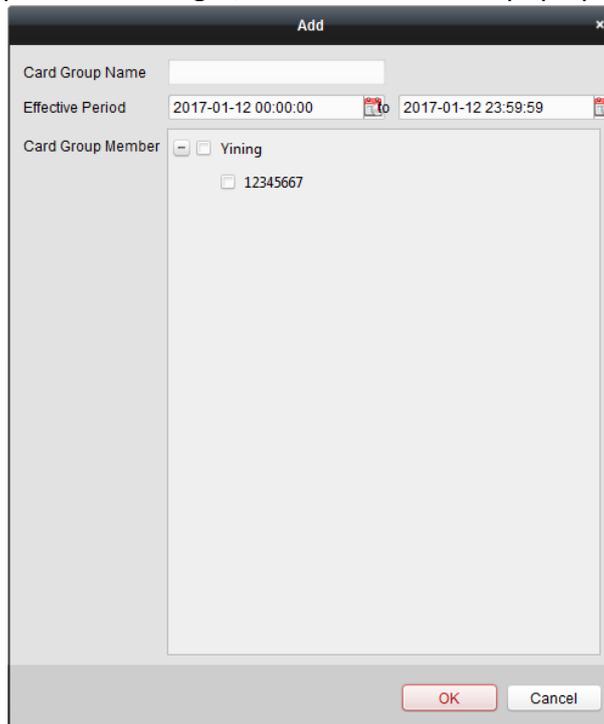
Note: Please set the card permission and apply the permission setting to the access control device first. For details, refer to *Chapter 6.7 Permission Configuration*.

Steps:

1. Click **Multiple Authentication** tab to enter the following interface.

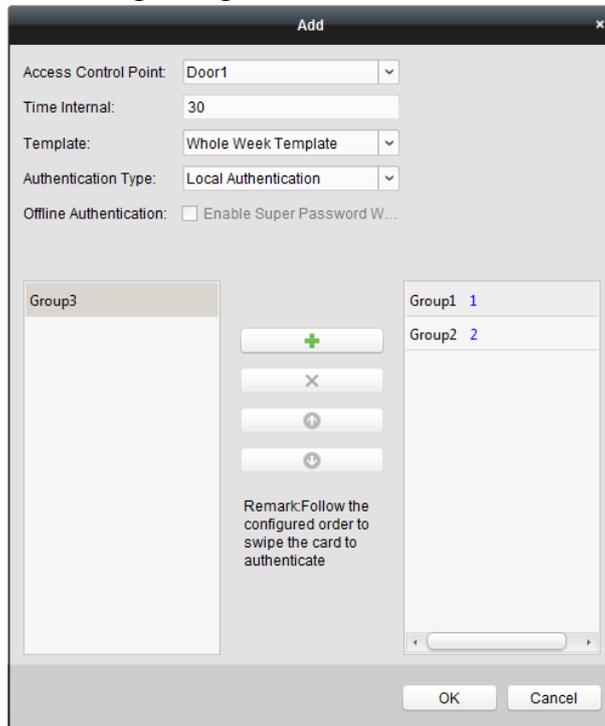


2. Select access control device from the list on the left.
3. In the Set Card Group panel on the right, click **Add** button to pop up the following dialog:



- 1) In the Card Group Name field, input the name for the group as desired.
- 2) Click  to set the effective time and expiry time of the card group.
- 3) Check the checkbox(es) to select the card(s) to add the card group.
- 4) Click **OK** to save the card group.

4. In the Set Authentication Group panel, select the access control point (door) of the device for multiple authentications.
5. Input the time interval for card swiping.
6. Click **Add** to pop up the following dialog.



- 1) Select the template of the authentication group from the dropdown list. For details about setting the template, refer to *Chapter 6.6 Schedule and Template*.
- 2) Select the authentication type of the authentication group from the dropdown list.
 - **Local Authentication:** Authentication by the access control device.
 - **Local Authentication and Remotely Open Door:** Authentication by the access control device and by the client.
For Local Authentication and Remotely Open Door type, you can check the checkbox to enable the super password authentication when the access control device is disconnected with the client.
 - **Local Authentication and Super Password:** Authentication by the access control device and by the super password.
- 3) In the list on the left, the added card group will display. You can click the card group and click **+** to add the group to the authentication group.
You can click the added card group and click **X** to remove it from the authentication group.
You can also click **↑** or **↓** to set the card swiping order.
- 4) Input the **Card Swiping Times** for the selected card group.

Notes:

- The Card Swiping Times should be larger than 0 and smaller than the added card quantity in the card group.

- The upper limit of Card Swiping Times is 16.
- 5) Click **OK** to save the settings.
 7. Click **Save** to save and take effect of the new settings.

Notes:

- For each access control point (door), up to 20 authentication groups can be added.
- For the authentication group which certificate type is **Local Authentication**, up to 8 card groups can be added to the authentication group.
- For the authentication group which certificate type is **Local Authentication and Super Password** or **Local Authentication and Remotely Open Door**, up to 7 card groups can be added to the authentication group.

6.8.4 Open Door with First Card

Purpose:

You can set multiple first cards for one access control point. After the first card swiping, it allows multiple persons access the door or other authentication actions. The first card mode contains Remain Open with First Card, Disable Remain Open with First Card, and First Card Authorization.

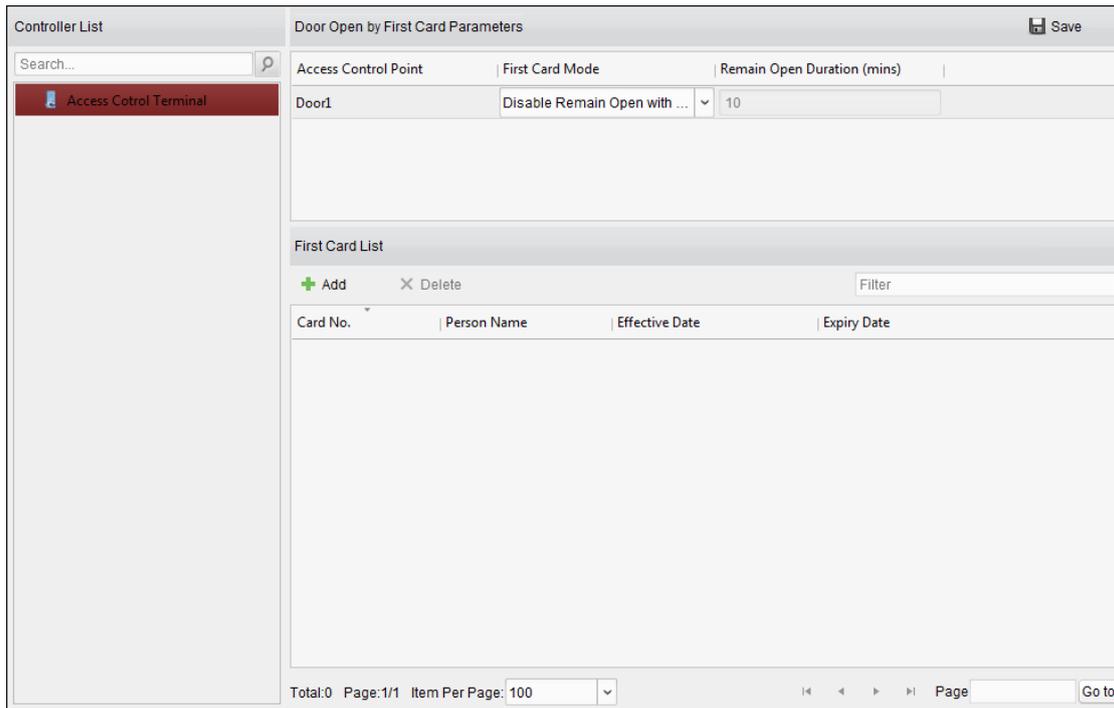
- **Remain Open with First Card:** The door remains open for the configured time duration after the first card swiping until the remain open duration ends.
- **Disable Remain Open with First Card:** Disable the function.
- **First Card Authorization:** All authentications (except for the authentications of super card, super password, duress card, and duress code) are allowed only after the first card authorization.

Notes:

- The first card authorization is effective only on the current day. The authorization will be expired after 24:00 on the current day.
- You can swipe the first card again to disable the first card mode.

Steps:

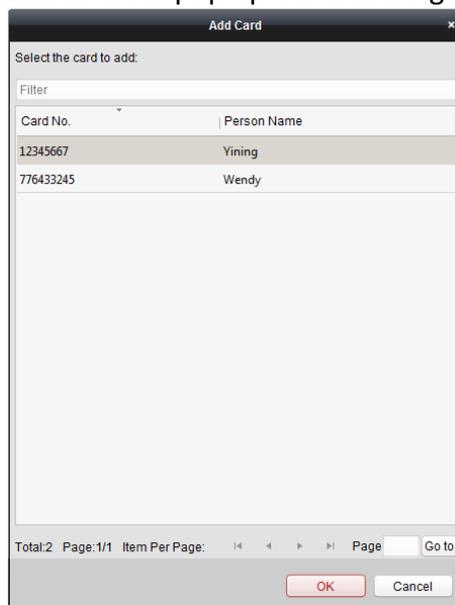
1. Click **Open Door with First Card** tab to enter the following interface.



2. Select an access control device from the list on the left.
3. Select the first card mode in the drop-down list for the access control point.
4. (Optional) If you select Remain Open with First Card, you should set remain open duration.

Notes:

- The Remain Open Duration should be between 0 and 1440 minutes. By default, it is 10 minutes.
 - You can swipe the first card again to disable the first card mode.
5. In the First Card list, Click **Add** button to pop up the following dialog box.



- 1) Select the cards to add as first card for the door

Note: Set the card permission and apply the permission setting to the access control device first. For details, refer to *Chapter 6.7 Permission Configuration*.

- 2) Click **OK** button to save adding the card.
6. You can click **Delete** button to remove the card from the first card list.
7. Click **Save** to save and take effect of the new settings.

6.8.5 Anti-Passing Back

Purpose:

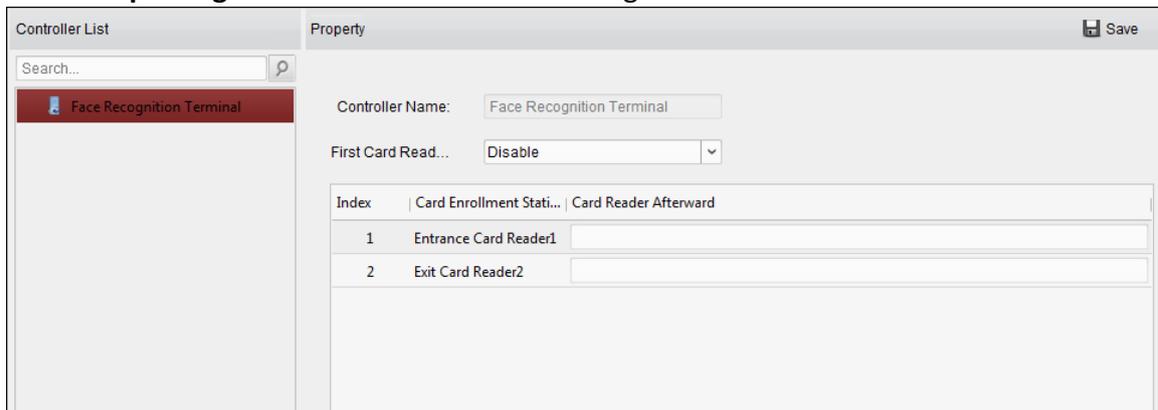
You can set to only pass the access control point according to the specified path and only one person could pass the access control point after swiping the card.

Notes:

- Either the anti-passing back or multi-door interlocking function can be configured for an access control device at the same time.
- You should enable the anti-passing back function on the access control device first.

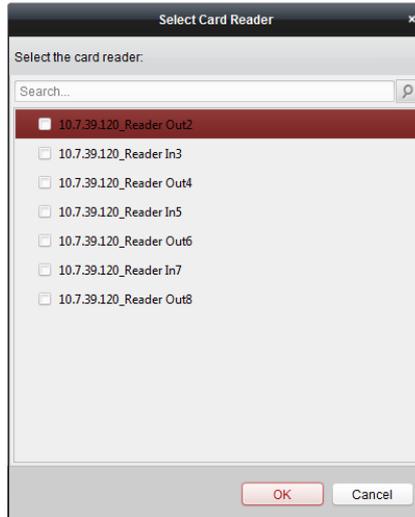
Steps:

1. Click **Anti-passing Back** tab to enter the following interface.



2. Select an access control device from the device list on the left.
3. In the First Card Reader field, select the card reader as the beginning of the path.
4. In the list, click the text filed of **Card Reader Afterward** and select the linked card readers.

Example: If you select Reader In_01 as the beginning, and select Reader In_02, Reader Out_04 as the linked card readers. Then you can only get through the access control point by swiping the card in the order as Reader In_01, Reader In_02 and Reader Out_04.



Note: Up to four afterward card readers can be added for one card reader.

5. (Optional) You can enter the Select Card Reader dialog box again to edit its afterward card readers.
6. Click **Save** to save and take effect of the new settings.

6.9 Searching Access Control Event

Purpose:

You can search the access control history events including remote event and local event via the client.

Local Event: Search the access control event from the database of the control client.

Remote Event: Search the access control event from the device.

Click  icon and click Access Control Event tab to enter the following interface.

6.9.1 Searching Local Access Control Event

Steps:

1. Select the Event Source as **Local Event**.
2. Input the search condition according to actual needs.
3. Click **Search**. The results will be listed below.
4. For the access control event which is triggered by the card holder, you can click the event to view the card holder details, including person No., person name, organization, phone number, contact address and photo.
5. (Optional) If the event contains linked pictures, you can click in the **Capture** column to view the captured picture of the triggered camera when the alarm is triggered.
6. (Optional) If the event contains linked video, you can click in the **Playback** column to view the recorded video file of the triggered camera when the alarm is triggered.
Note: For setting the triggered camera, refer to *Chapter 6.10.1 Access Control Event Linkage*.
7. You can click **Export** to export the search result to the local PC in *.csv file.

6.9.2 Searching Remote Access Control Event

Steps:

1. Select the Event Source as **Remote Event**.
2. Input the search condition according to actual needs.
3. (Optional) You can check **With Alarm Picture** checkbox to search the events with alarm pictures.
4. Click **Search**. The results will be listed below.
5. You can click **Export** to export the search result to the local PC in *.csv file.

6.10 Access Control Event Configuration

Purpose:

For the added access control device, you can configure its access control linkage including access control event linkage, access control alarm input linkage, event card linkage, and cross-device linkage.



Click the  icon on the control panel,
or click **Tool->Event Management** to open the Event Management page.

6.10.1 Access Control Event Linkage

Purpose:

You can assign linkage actions to the access control event by setting up a rule. For example, when the access control event is detected, an audible warning appears or other linkage actions happen.

Note: The linkage here refers to the linkage of the client software’s own actions.

Steps:

1. Click the **Access Control Event** tab.
2. The added access control devices will display in the Access Control Device panel on the left. Select the access control device, or alarm input, or access control point (door), or card reader to configure the event linkage.
3. Select the event type to set the linkage.
4. Select the triggered camera. The image or video from the triggered camera will pop up when the selected event occurs.
To capture the picture of the triggered camera when the selected event occurs, you can also set the capture schedule and the storage in Storage Schedule.
5. Check the checkboxes to activate the linkage actions. For details, refer to *Table 14.1 Linkage Actions for Access Control Event*.
6. Click **Save** to save the settings.
7. You can click Copy to button to copy the access control event to other access control device, alarm input, access control point, or card reader.

Select the parameters for copy, select the target to copy to, and click **OK** to confirm.

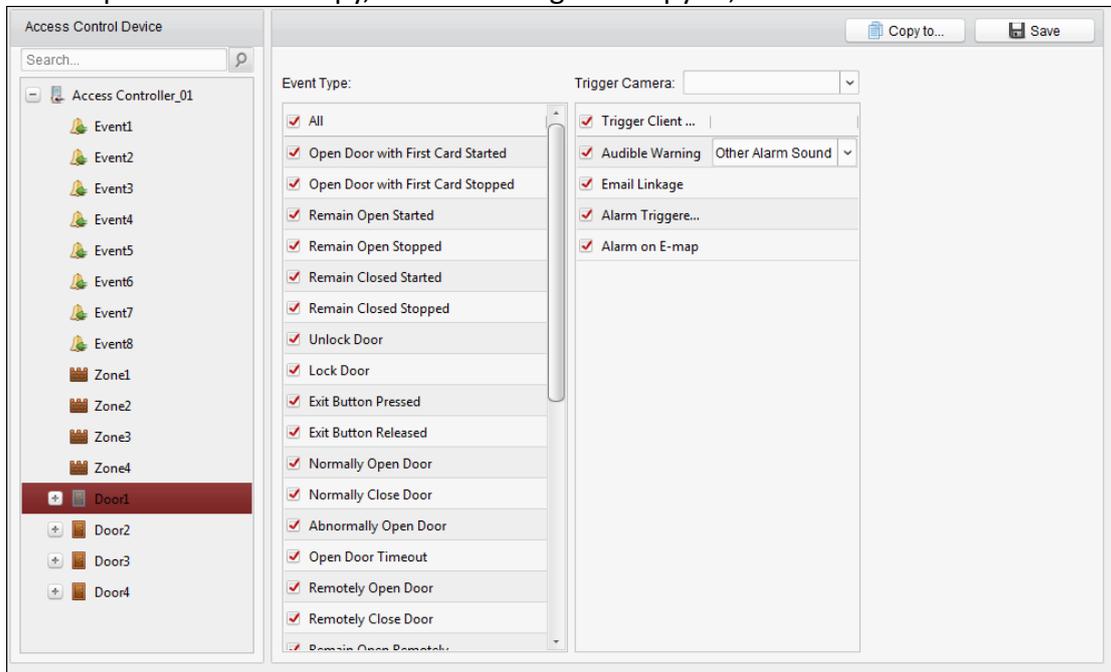


Table 1. 1 Linkage Actions for Access Control Event

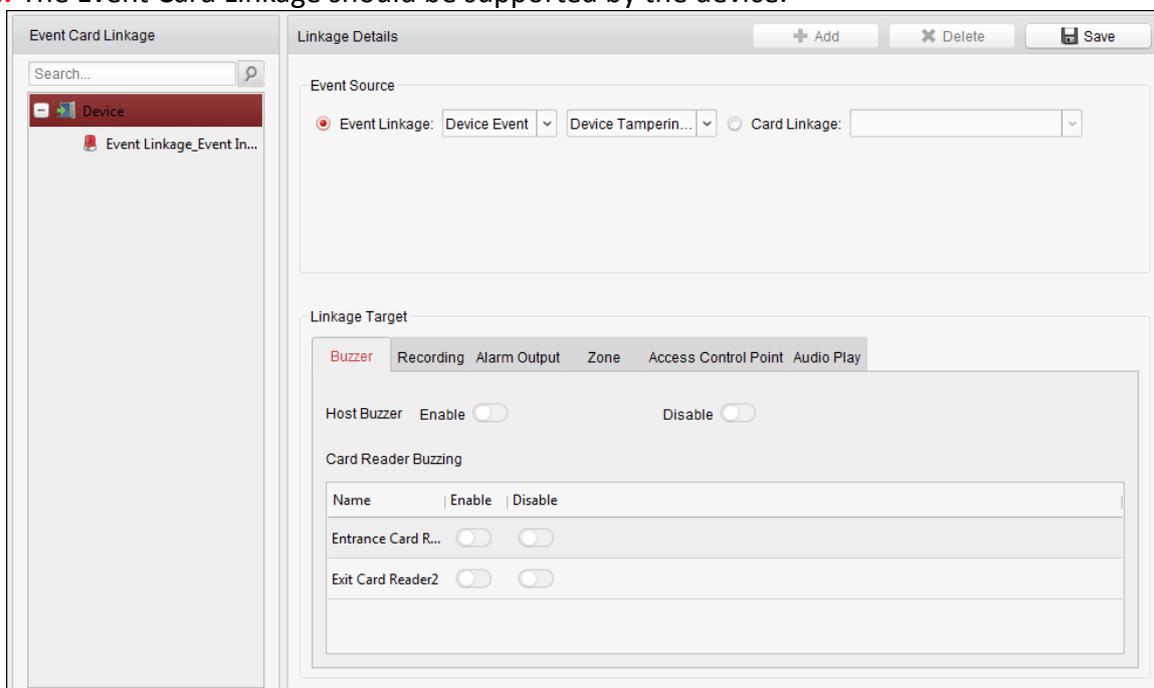
| Linkage Actions | Descriptions |
|------------------------|---|
| Audible Warning | The client software gives an audible warning when alarm is triggered. You can select the alarm sound for audible warning. |

| | |
|-------------------------------------|---|
| Email Linkage | Send an email notification of the alarm information to one or more receivers. |
| Alarm on E-map | Display the alarm information on the E-map. Note: This linkage is only available to access control point and alarm input. |
| Alarm Triggered Pop-up Image | The image with alarm information pops up when alarm is triggered. |

6.10.2 Event Card Linkage

Click **Event Card Linkage** tab to enter the following interface.

Note: The Event Card Linkage should be supported by the device.



Select the access control device from the list on the left.

Click **Add** button to add a new linkage. You can select the event source as **Event Linkage** or **Card Linkage**.

Event Linkage

For the event linkage, the alarm event can be divided into four types: device event, alarm input, door event, and card reader event.

Steps:

1. Select a device on the left and click **Add**.
2. Click to select the linkage type as **Event Linkage**, and select the event type from the dropdown list.
 - For Device Event, select the detailed event type from the dropdown list.
 - For Alarm Input, select the type as alarm or alarm recovery and select the alarm input name from the panel.

- For Door Event, select the detailed event type and select the source door from the panel.
 - For Card Reader Event, select the detailed event type and select the card reader from the panel.
3. Click different tabs to set different parameters. Switch the property from  to  to enable this function.

You can set the parameters of buzzer, recording, alarm output, zone, access control point, and audio play.

| Linkage Type | Linkage Target | Descriptions |
|----------------------|----------------------|---|
| Buzzer | Host Buzzer | The audible warning of controller will be triggered. |
| | Card Reader Buzzer | The audible warning of card reader will be triggered. |
| Recording | Capture Status | The real-time capture will be triggered. |
| Alarm Output | Alarm Output | The alarm output will be triggered for notification. |
| Zone | Zone | The zone will be armed or disarmed according to your settings. |
| Access Control Point | Access Control Point | The door status of open, close, remain open, and remain closed will be triggered. Notes: <ul style="list-style-type: none"> ● The door status of open, close, remain open, and remain close cannot be triggered at the same time. ● The target door and the source door cannot be the same one. |
| Audio Play | Audio Play Status | The audio prompt will be triggered. And the select audio index related audio content will be played according to the configured play mode. |

4. Click **Save** to save and take effect of the parameters.

Card Linkage

Steps:

1. Click to select the linkage type as **Card Linkage**.
2. Input the card No. or select the card from the dropdown list.
3. Select the card reader from the panel for triggering.
5. Click different tabs to set different parameters. Switch the property from  to  to enable this function.

You can set the parameters of buzzer, recording, alarm output, zone, access control point, and audio play.

| Linkage Type | Linkage Target | Descriptions |
|--------------|--------------------|---|
| Buzzer | Host Buzzer | The audible warning of controller will be triggered. |
| | Card Reader Buzzer | The audible warning of card reader will be triggered. |

| | | |
|----------------------|----------------------|---|
| Recording | Capture Status | The real-time capture will be triggered. |
| Alarm Output | Alarm Output | The alarm output will be triggered for notification. |
| Zone | Zone | The zone will be armed or disarmed according to your settings. |
| Access Control Point | Access Control Point | The door status of open, close, remain open, and remain closed will be triggered. Notes: <ul style="list-style-type: none"> ● The door status of open, close, remain open, and remain close cannot be triggered at the same time. ● The target door and the source door cannot be the same one. |
| Audio Play | Audio Play Status | The audio prompt will be triggered. And the select audio index related audio content will be played according to the configured play mode. |

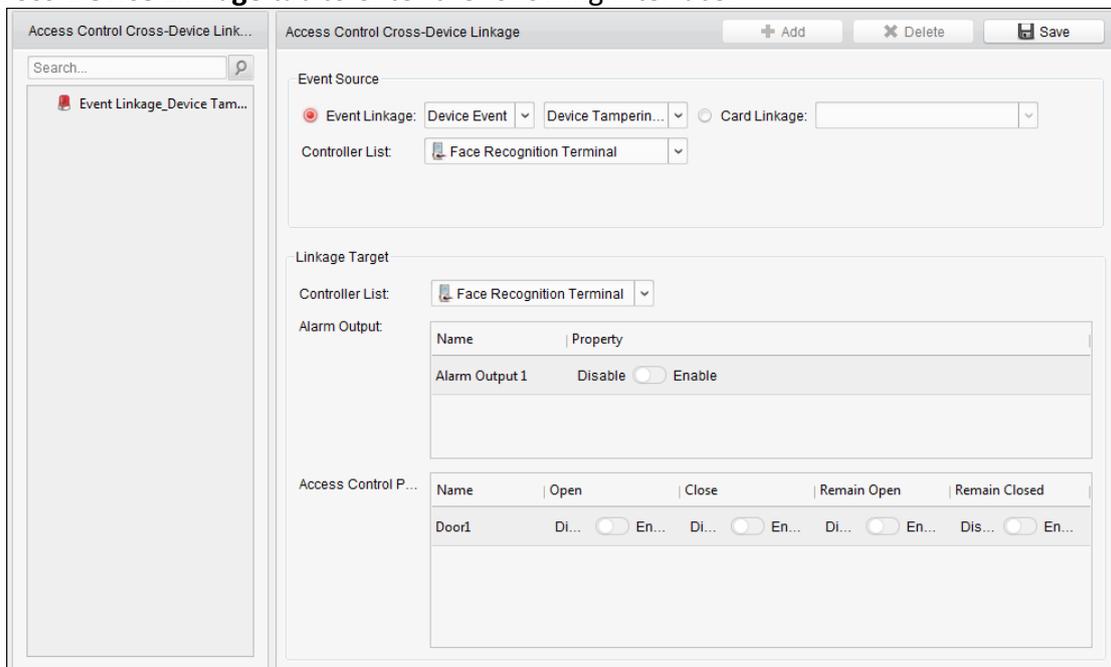
4. Click **Save** to save and take effect of the parameters.

6.10.3 Cross-Device Linkage

Purpose:

You can assign to trigger other access control device’s action by setting up a rule when the access control event is triggered.

Click **Cross-Device Linkage** tab to enter the following interface.



Click **Add** button to add a new client linkage. You can select the event source as **Event Linkage** or **Card Linkage**.

Event Linkage

For the event linkage, the alarm event can be divided into four types: device event, alarm input, door event, and card reader event.

Steps:

1. Click to select the linkage type as **Event Linkage**, select the access control device as event source, and select the event type from the dropdown list.
 - For Device Event, select the detailed event type from the dropdown list.
 - For Alarm Input, select the type as alarm or alarm recovery and select the alarm input name from the table.
 - For Door Event, select the detailed event type and select the door from the table.
 - For Card Reader Event, select the detailed event type and select the card reader from the table.
2. Set the linkage target, select the access control device from the dropdown list as the linkage target, and switch the property from to to enable this function.
 - **Alarm Output:** The alarm output will be triggered for notification.
 - **Access Control Point:** The door status of open, close, remain open, and remain close will be triggered.
Note: The door status of open, close, remain open, and remain close cannot be triggered at the same time.
3. Click **Save** button to save parameters.

Card Linkage

Steps:

1. Click to select the linkage type as **Card Linkage**.
2. Select the card from the dropdown list and select the access control device as event source.
3. Select the card reader from the table for triggering.
4. Set the linkage target, select the access control device from the dropdown list as the linkage target, and switch the property from to to enable this function.
Alarm Output: The alarm output will be triggered for notification.
5. Click **Save** button to save parameters.

6.11 Door Status Management

Purpose:

The door status of the added access control device will be displayed in real time. You can check the door status and the linked event(s) of the selected door. You can control the status of the door and set the status duration of the doors as well.

6.11.1 Access Control Group Management

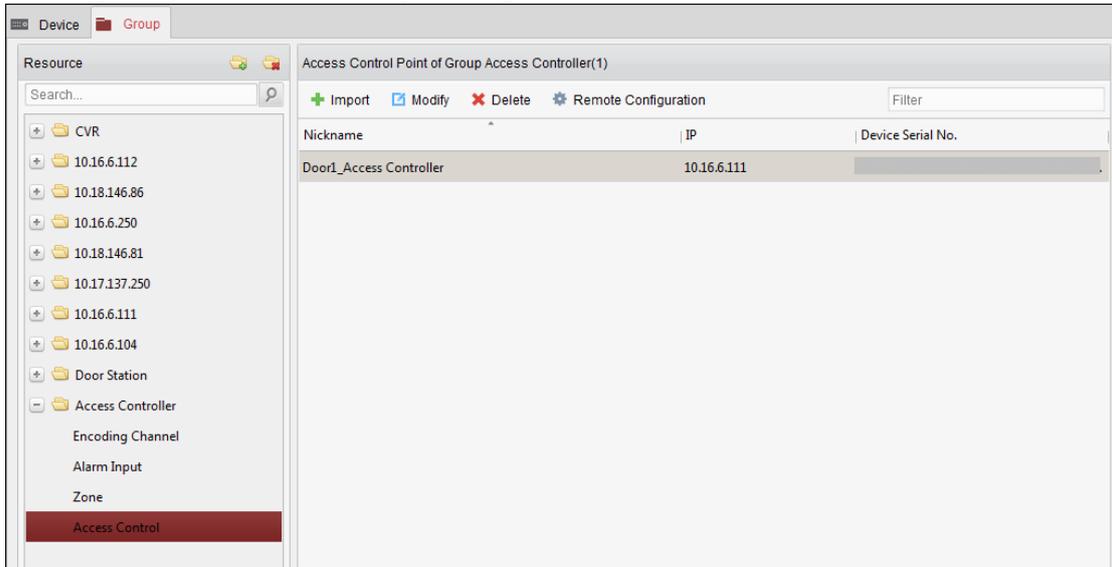
Purpose:

Before controlling the door status and setting the status duration, you are required to organize it into group for convenient management.

Perform the following steps to create the group for the access control device:

Steps:

1. Click  on the control panel to open the Device Management page.
2. Click **Group** tab to enter the Group Management interface.



3. Perform the following steps to add the group.
 - 1) Click  to open the Add Group dialog box.
 - 2) Input a group name as you want.
 - 3) Click **OK** to add the new group to the group list.

You can also check the checkbox **Create Group by Device Name** to create the new group by the name of the selected device.

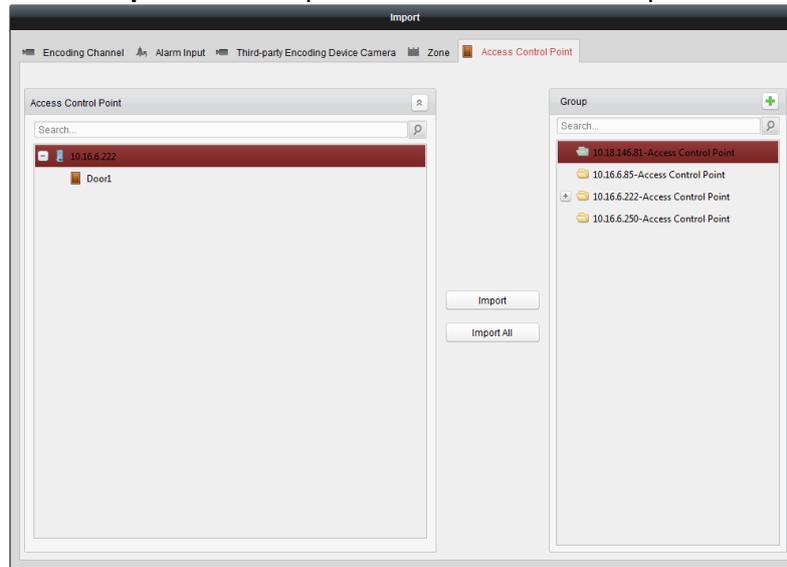


4. Perform the following steps to import the access control points to the group:
 - 1) Click **Import** on Group Management interface, and then click the **Access Control** tab to open the Import Access Control page.

Notes:

- You can also select **Alarm Input** tab and import the alarm inputs to group.
 - For the Video Access Control Terminal, you can add the cameras as encoding channel to the group.
- 2) Select the names of the access control points in the list.
 - 3) Select a group from the group list.

- 4) Click **Import** to import the selected access control points to the group.
You can also click **Import All** to import all the access control points to a selected group.



5. After importing the access control points to the group, you can click , or double-click the group/access control point name to modify it.

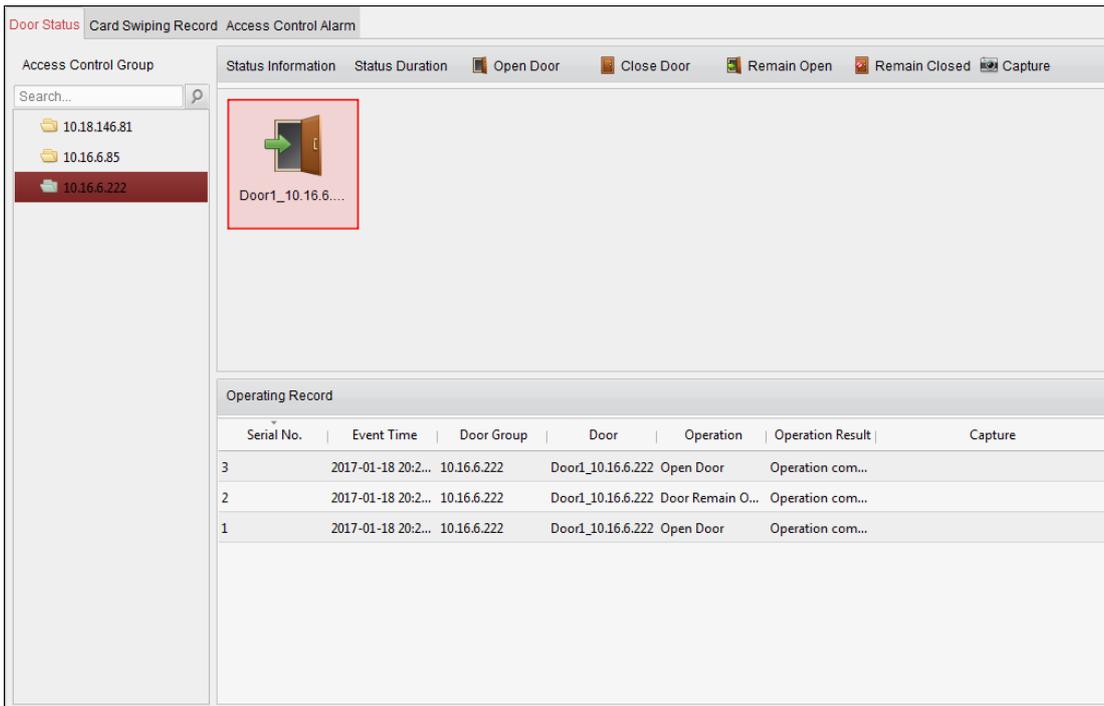
6.11.2 Anti-control the Access Control Point (Door)

Purpose:

You can control the status for a single access control point (a door), including opening door, closing door, remaining open, and remaining closed.



Click  icon on the control panel to enter the Status Monitor interface.

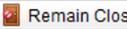


Steps:

1. Select an access control group on the left. For managing the access control group, refer to *Chapter 6.11.1 Access Control Group Management*.
2. The access control points of the selected access control group will be displayed on the right.

Click icon  on the Status Information panel to select a door.

3. Click the following button listed on the **Status Information** panel to control the door.

-  **Open Door**: Click to open the door once.
-  **Close Door**: Click to close the door once.
-  **Remain Open**: Click to keep the door open.
-  **Remain Closed**: Click to keep the door closed.
-  **Capture**: Click to capture the picture manually.

4. You can view the anti-control operation result in the Operation Log panel.

Notes:

- If you select the status as **Remain Open/Remain Closed**, the door will keep open/closed until a new anti-control command being made.
- The **Capture** button is available when the device supports capture function. And it cannot be realized until the storage server is configured.
- If the door is in remain closed status, only super card can open the door or open door via the client software.

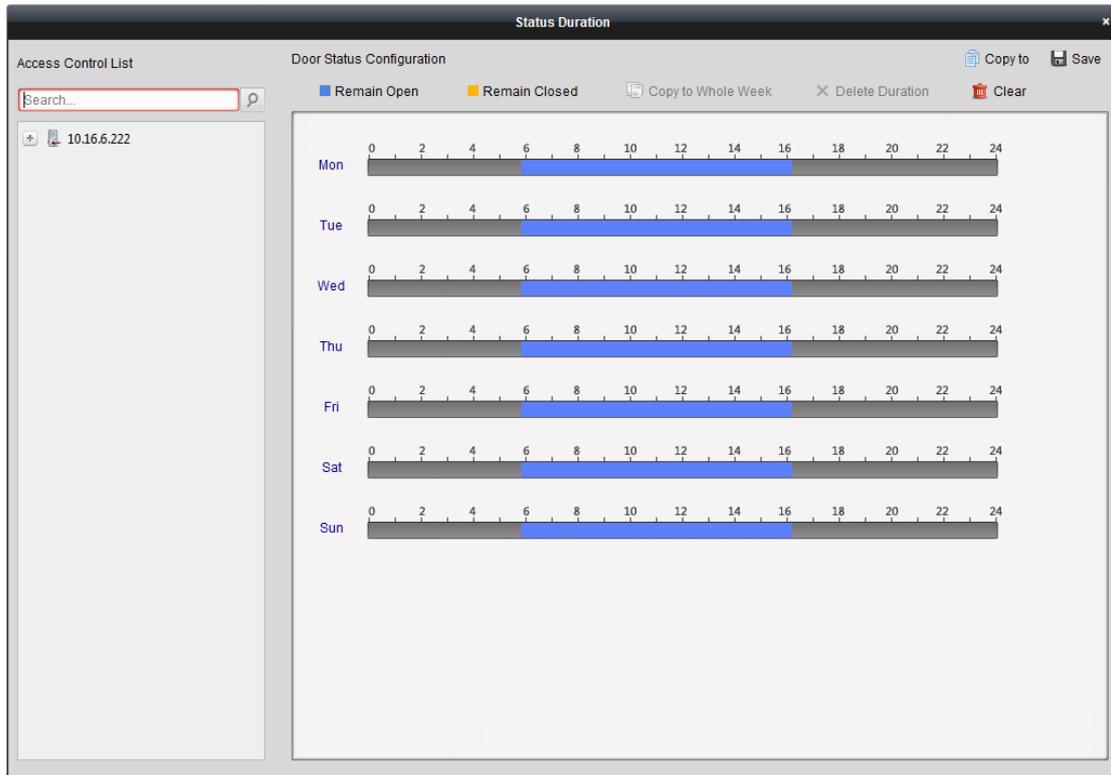
6.11.3 Status Duration Configuration

Purpose:

You can schedule weekly time periods for an access control point (door) to remain open or remain

closed.

In the Door Status module, click **Status Duration** button to enter the Status Duration interface.



Steps:

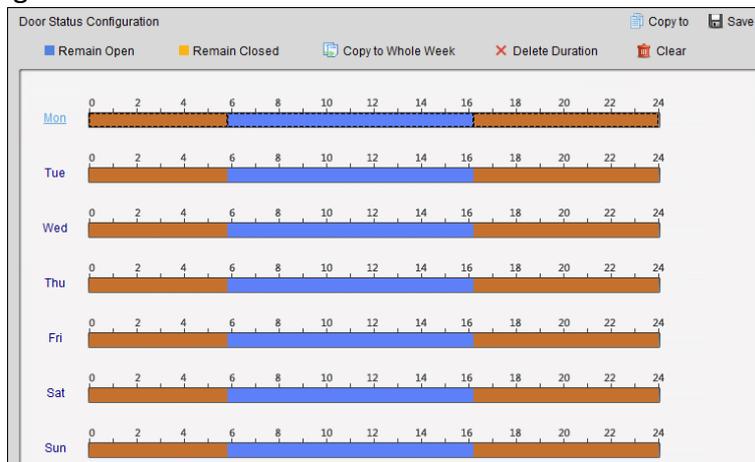
1. Click to select a door from the access control device list on the left.
2. On the Door Status Configuration panel on the right, draw a schedule for the selected door.

- 1) Select a door status brush as Remain Open or Remain Closed.

Remain Open: The door will keep open during the configured time period. The brush is marked as ■.

Remain Closed: The door will keep closed during the configured duration. The brush is marked as ■.

- 2) Click and drag on the timeline to draw a color bar on the schedule to set the duration.



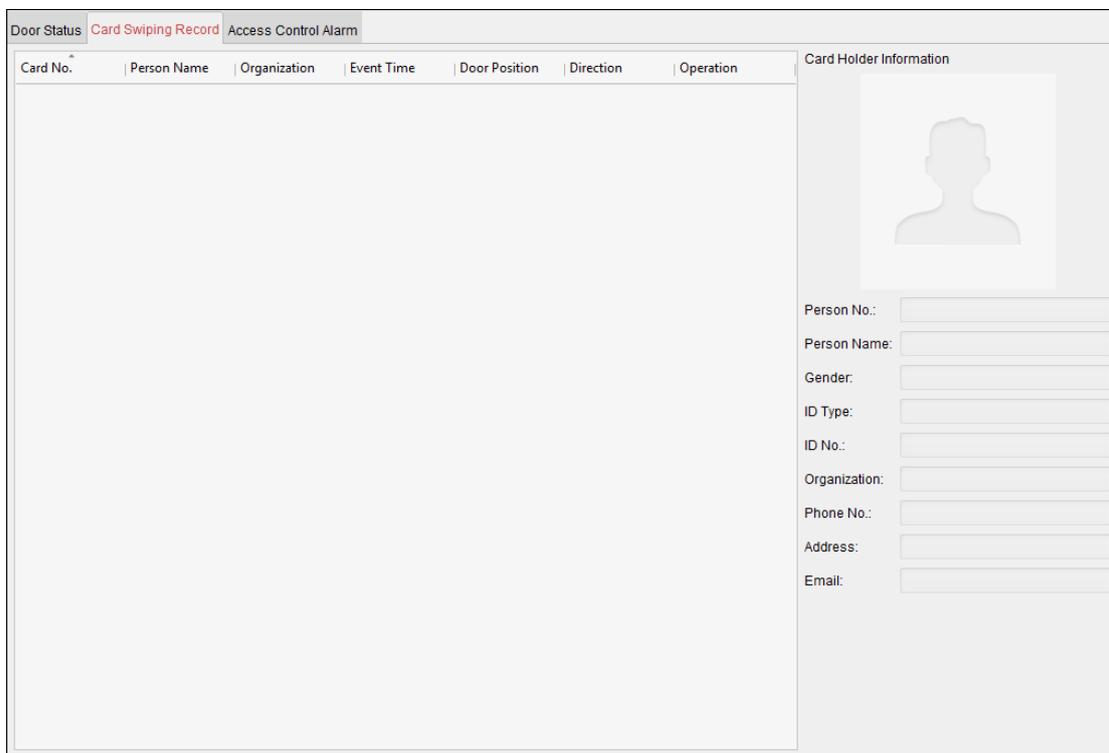
- 3) When the cursor turns to , you can move the selected time bar you just edited. You can also edit the displayed time point to set the accurate time period.

When the cursor turns to , you can lengthen or shorten the selected time bar.

3. Optionally, you can select the schedule time bar and click **Copy to Whole Week** to copy the time bar settings to the other days in the week.
4. You can select the time bar and click **Delete Duration** to delete the time period. Or you can click **Clear** to clear all configured durations on the schedule.
5. Click **Save** to save the settings.
6. You can click **Copy to** button to copy the schedule to other doors.

6.11.4 Real-time Card Swiping Record

Click **Card Swiping Record** tab to enter the following interface.



The logs of card swiping records of all access control devices will display in real time. You can view the details of the card swiping event, including card No., person name, organization, event time, etc.

You can also click the event to view the card holder details, including person No., person name, organization, phone, contact address, etc.

6.11.5 Real-time Access Control Alarm

Purpose:

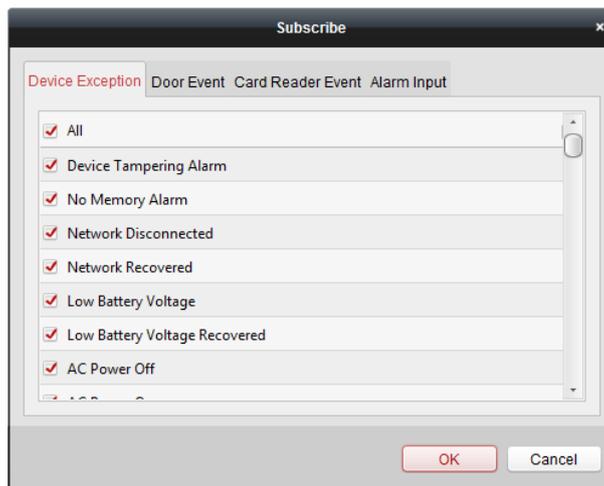
The logs of access control events will be displayed in real time, including device exception, door event, card reader event, and alarm input.

Click **Access Control Alarm** tab to enter the following interface.

| Alarm Type | Alarm Time | Alarm Location | Alarm Content | Operation |
|-------------------|--------------------|-------------------|-------------------|-----------|
| Remote: Disarm... | 2016-12-16 13:5... | Access Controller | Remote: Disarm... | |
| Remote: Arming | 2016-12-16 13:5... | Access Controller | Remote: Arming | |
| Remote: Login | 2016-12-16 13:5... | Access Controller | Remote: Login | |
| Remote: Disarm... | 2016-12-16 13:5... | Access Controller | Remote: Disarm... | |
| Remote: Logout | 2016-12-16 13:5... | Access Controller | Remote: Logout | |
| Remote: Login | 2016-12-16 13:5... | Access Controller | Remote: Login | |
| Remote: Arming | 2016-12-16 13:4... | Access Controller | Remote: Arming | |
| Remote: Login | 2016-12-16 13:4... | Access Controller | Remote: Login | |
| Remote: Disarm... | 2016-12-16 13:4... | Access Controller | Remote: Disarm... | |
| Door Locked | 2016-12-16 13:4... | Door1 | Door Locked | |
| Unlock | 2016-12-16 13:4... | Door1 | Unlock | |
| Remote: Arming | 2016-12-16 13:4... | Access Controller | Remote: Arming | |
| Remote: Login | 2016-12-16 13:4... | Access Controller | Remote: Login | |
| Remote: Disarm... | 2016-12-16 13:4... | Access Controller | Remote: Disarm... | |

Steps:

1. All access control alarms will display in the list in real time.
You can view the alarm type, alarm time, location, etc.
2. Click to view the alarm on E-map.
3. You can click or to view the live view or the captured picture of the triggered camera when the alarm is triggered.
Note: For setting the triggered camera, refer to *Chapter 6.10.1 Access Control Event Linkage*.
4. Click **Subscribe** to select the alarm that the client can receive when the alarm is triggered.



- 1) Check the checkbox(es) to select the alarm(s), including device exception alarm, door event alarm, card reader alarm, and alarm input.
- 2) Click **OK** to save the settings.

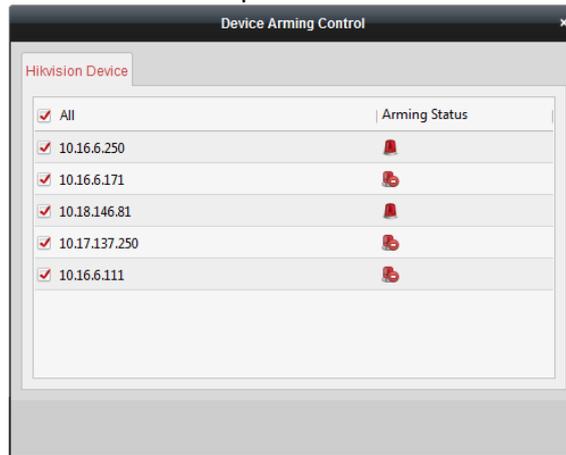
6.12 Arming Control

Purpose:

You can arm or disarm the device. After arming the device , the client can receive the alarm information from the device.

Steps:

1. Click **Tool->Device Arming Control** to pop up the Device Arming Control window.
2. Arm the device by checking the corresponding checkbox.
Then the alarm information will be auto uploaded to the client software when alarm occurs.



6.13 Time and Attendance

Purpose:

The Time and Attendance module provides multiple functionalities, including shift schedule management, attendance handling, attendance statistics and other advanced functions.

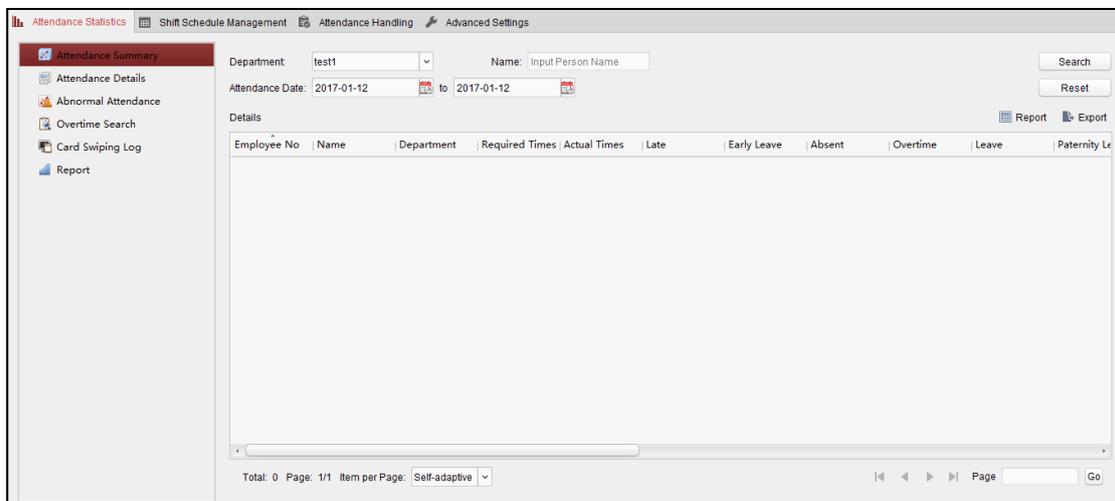
Before you start:

You should add organization and person in Access Control module. For details, refer to *Chapter 6.4.1 Adding Organization* and *Chapter 6.5.1 Adding Person*.

Perform the following steps to access the Time and Attendance module.

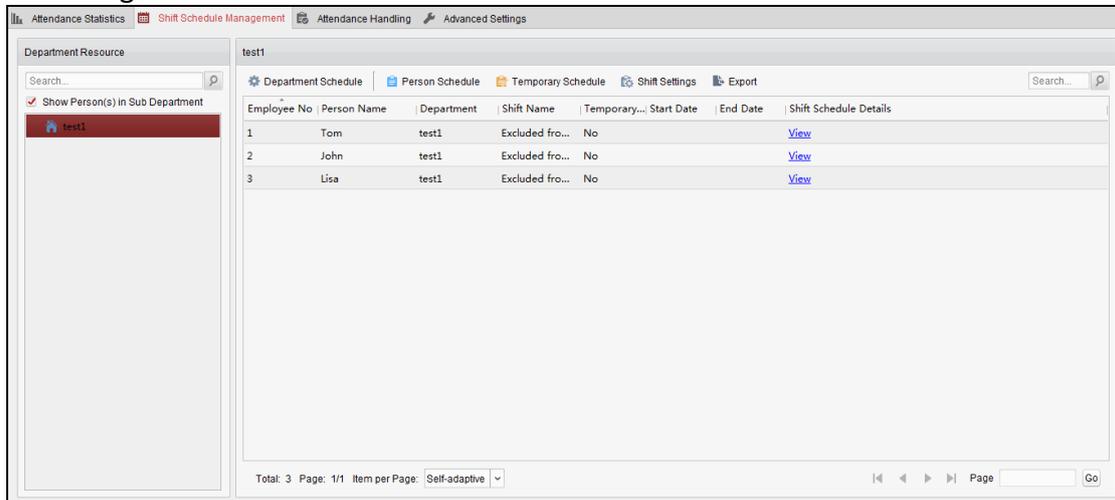


Click  to enter the Time and Attendance module as follows:



6.13.1 Shift Schedule Management

Open Time and Attendance module and click **Shift Schedule Management** to enter the Shift Schedule Management interface.



Shift Settings

Purpose:

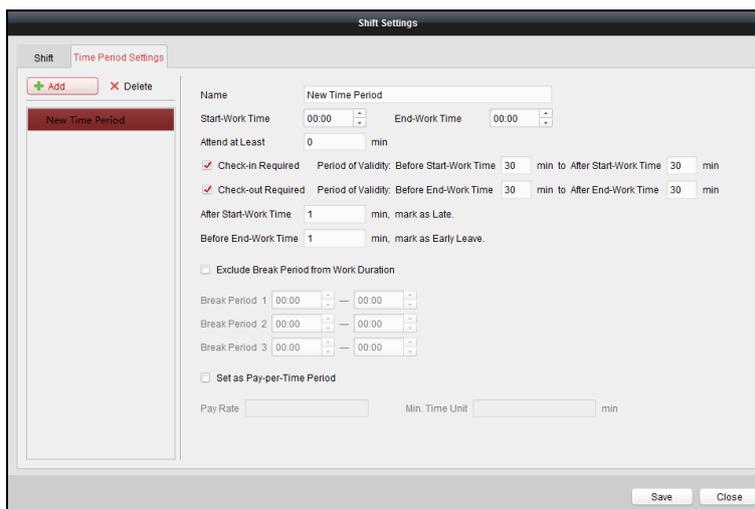
You can add time period and shift for the shift schedule.

Click **Shift Settings** to pop up Shift Settings dialog.

➤ **Adding Time Period**

Steps:

1. Click **Time Period** tab.
2. Click **Add**.



3. Set the related parameters.

Name: Set the name for time period.

Start-Work / End-Work Time: Set the start-work time and end-work time.

Attend at Least: Set the minimum attendance time.

Check-in / Check-out Required: Check the checkboxes and set the valid period for check-in or check-out.

Mark as Late/Mark as Early Leave: Set the time period for late or early leave.

Exclude Break Period from Work Duration: Check the checkbox and set the break period excluded.

Note: Up to 3 break periods can be set.

Set as Pay-per-Time Period: Check the checkbox and set the pay rate and minimum time unit.

4. Click **Save** to save the settings.

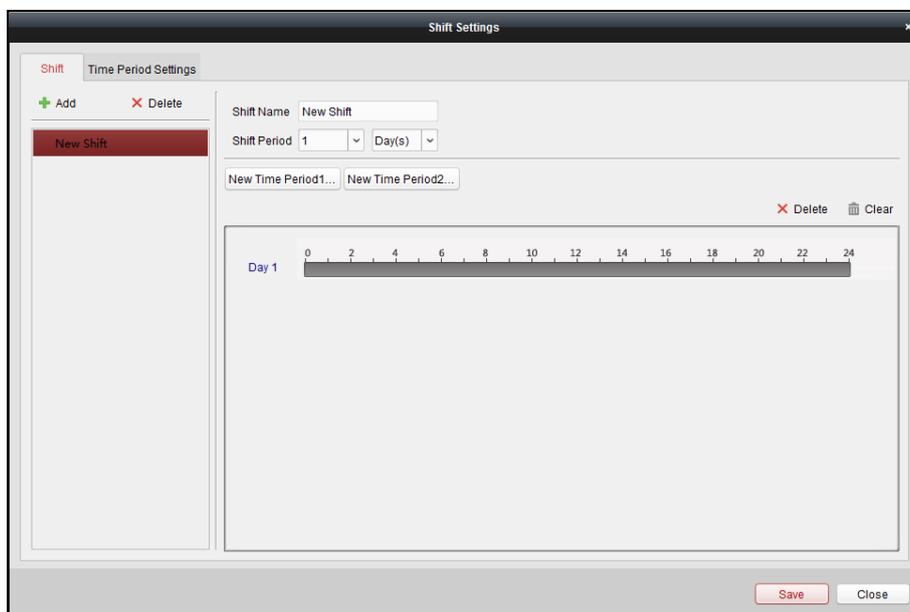
The added time period will display on the left panel of the dialog.

You can also click **Delete** to delete the time period.

➤ Adding Shift

Steps:

1. Click **Shift** Tab.
2. Click **Add**.



3. Set the name for shift.

4. Select the shift period from the drop-down list.

5. Configure the shift period with the added time period.

1) Select the time period.

2) Click the time bar to apply the time period for the select day.

You can click the time period on the bar and click **X** or **Delete** to delete the period.

You can also click **Clear** to delete all days' time period.

6. Click **Save** to save the settings.

The added shift will display on the left panel of the dialog.

You can also click **Delete** on the left panel to delete the shift.

Shift Schedule Settings

Purpose:

After setting the shift, you can set department schedule, person schedule and temporary schedule.

Note: The temporary schedule has higher priority than department schedule and person schedule.

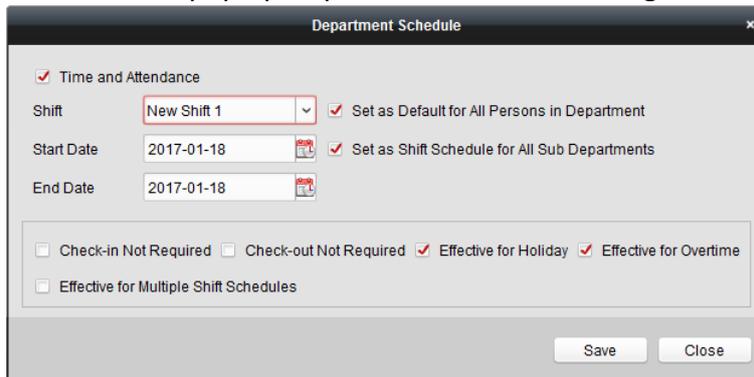
➤ **Department Schedule**

You can set the shift schedule for one department, and all the persons in the department will be assigned with the shift schedule.

Note: In Time and Attendance module, the department list is the same with the **organization** in Access Control. For setting the organization in Access Control, refer to *Chapter 6.4 Organization Management*.

Steps:

1. Open the Shift Schedule Management interface and select the department on the left panel.
2. Click **Department Schedule** to pop up Department Schedule dialog.



3. Check **Time and Attendance** checkbox.

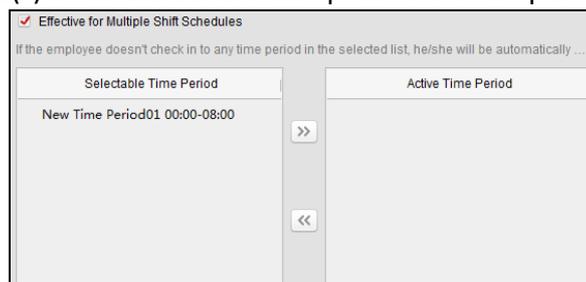
All persons in the department except those excluded from attendance will apply the attendance schedule.

4. Select the shift from the drop-down list.
5. Set the start date and end date.
6. (Optional) Set other parameters for the schedule.

You can select Check-in Not Required, Check-out Not Required, Effective for Holiday, Effective for Overtime, Effective for Multiple Shift Schedules.

Notes:

- Multiple Shift Schedules contains more than one time periods. The person can check in/out in any of the time periods and the attendance will be effective.
Example: If the multiple shift schedules contains three time periods: 00:00 to 07:00, 08:00 to 15:00 and 16:00 to 23:00. The attendance of the person adopting this multiple shift schedules will be effective in any of the three time periods. If the person checks in at 07:50, it will apply the nearest time period 08:00 to 15:00 to the person's attendance.
- After checking the **Effective for Multiple Shift Schedules** checkbox, you can select the effective time period(s) from the added time periods for the persons in the department.

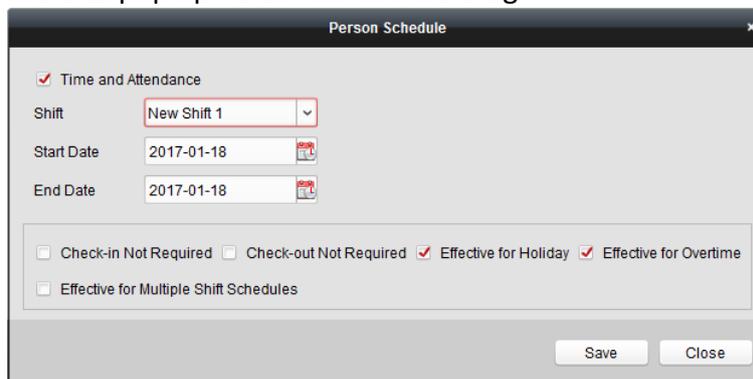


- 1) In the Selectable Time Period list on the left, click the added time period and click  to add it to the right.
- 2) (Optional) To remove the selected time period, select it and click .
7. (Optional) Check **Set as Default for All Persons in Department** checkbox. All persons in the department will use this shift schedule by default.
8. (Optional) If the selected department contains sub department(s), the Set as **Shift Schedule for All Sub Departments** checkbox will display. You can check it to apply the department schedule to its sub departments.
9. Click **Save** to save the settings.

➤ **Person Schedule**

Steps:

1. Open the Shift Schedule Management interface and select the department on the left panel.
2. Select the person(s) on the right panel.
3. Click **Person Schedule** to pop up Person Schedule dialog.

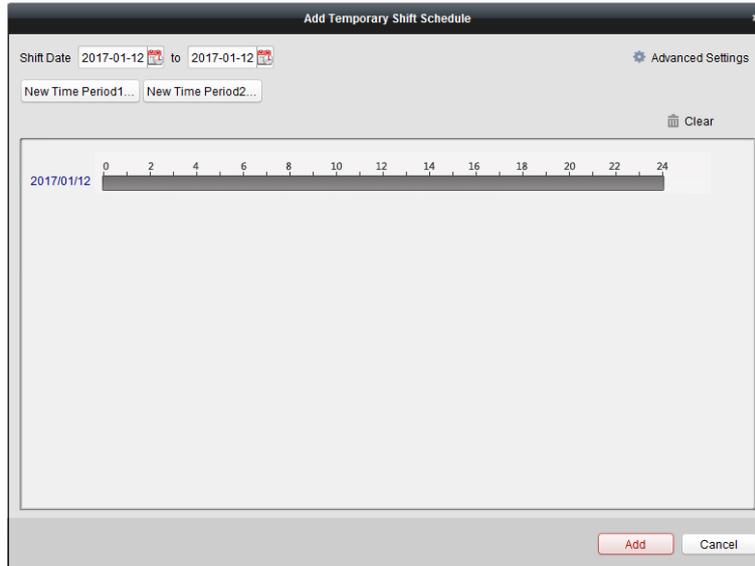


4. Check **Time and Attendance** checkbox. The configured person will apply the attendance schedule.
5. Select the shift from the drop-down list.
6. Set the start date and end date.
7. (Optional) Set other parameters for the schedule. You can select Check-in Not Required, Check-out Not Required, Effective for Holiday, Effective for Overtime, Effective for Multiple Shift Schedules.
8. Click **Save** to save the settings.

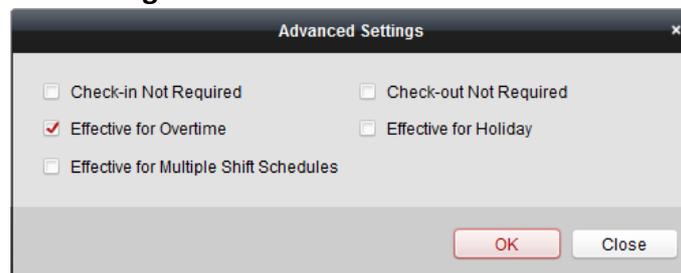
➤ **Temporary Schedule**

Steps:

1. Open the Shift Schedule Management interface and select the department on the left panel.
2. Select the person(s) on the right panel.
3. Click **Temporary Schedule** to pop up Temporary Schedule dialog.



4. Click  to set the shift date.
5. Configure the shift date with the added time period.
 - 1) Select the time period.
 - 2) Click the time bar to apply the time period for the select date.
You can click the time period on the bar and click  to delete the period.
You can also click **Clear** to delete all days' time period.
6. You can click **Advanced Settings** to advanced attendance rules for the temporary schedule.

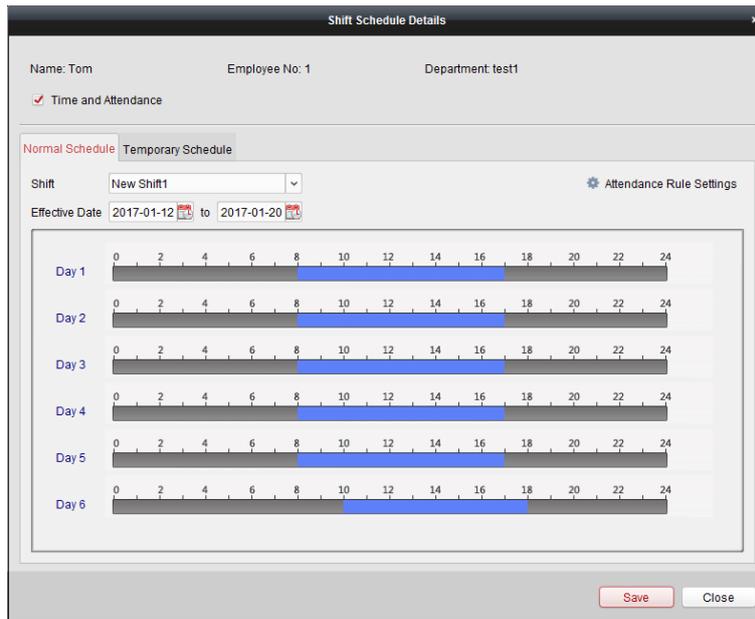


7. Click **Add** to save the settings.

➤ Checking Shift Schedule Details

Steps:

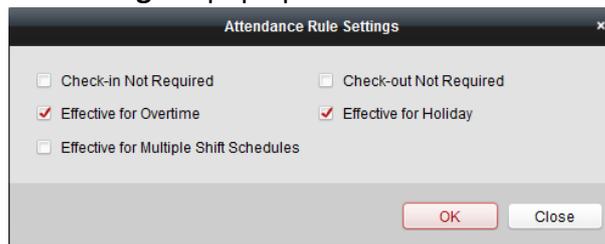
1. On the Shift Schedule Management interface, select the department on the left panel.
2. Select the person(s) on the right panel.
3. Click **View** to pop up Shift Schedule Details dialog.
You can check the shift schedule details.



4. Click **Normal Schedule** tab.

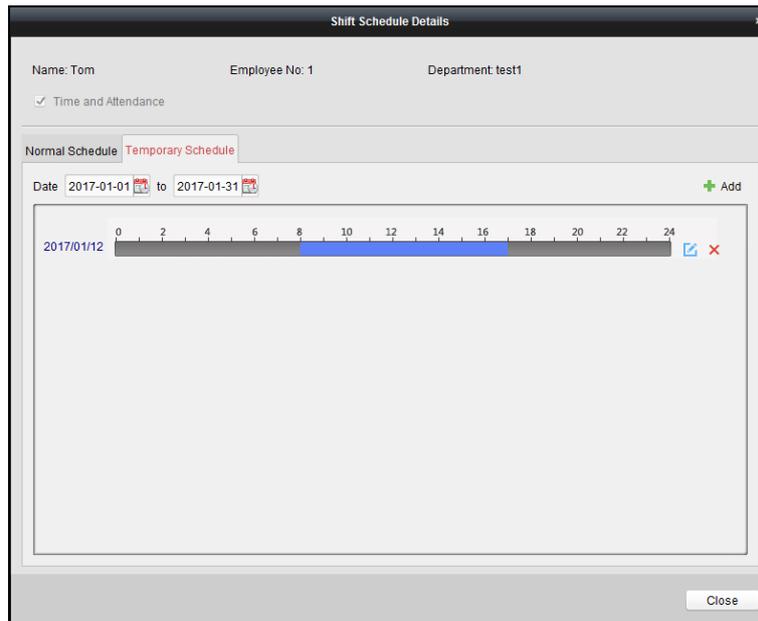
You can check and edit the normal schedule details.

- 1) Select the shift from the drop-down list.
- 2) Click **Attendance Rule Settings** to pop up Attendance Rule Settings dialog.



You can check the attendance rules as desired and click **OK** to save the settings.

- 3) Click  to set the effective date.
 - 4) Click **Save** to save the settings.
5. (Optional) Click **Temporary Schedule** tab.



You can check and edit the temporary schedule details.

(Optional) Click **Add** to add temporary schedule for the selected person.

(Optional) Click  to edit the time period.

(Optional) Click  to delete the temporary schedule.

➤ Exporting Shift Schedule Details

On the Shift Schedule Management interface, select the department on the left panel and click **Export** to export all persons' shift schedule details to local PC.

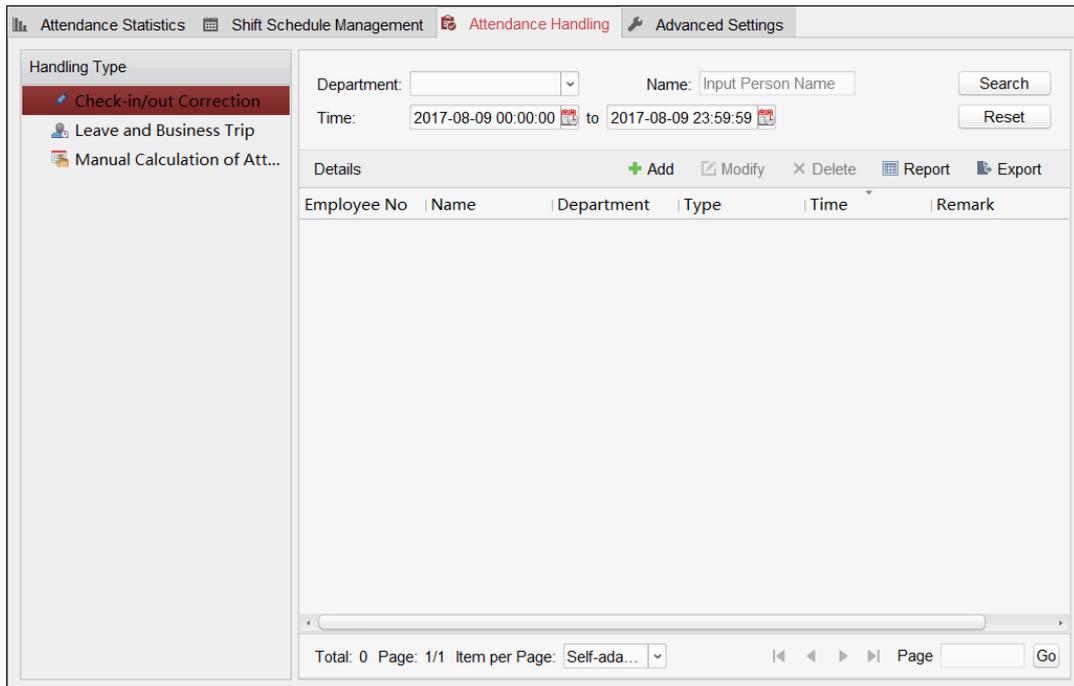
Note: The exported details are saved in *.csv format.

6.13.2 Attendance Handling

Purpose:

You can handle the attendance, including check-in correction, check-out correction, leave and business trip, and manual calculation of attendance.

Open Time and Attendance module and click **Attendance Handling** to enter the Attendance Handling interface.



Check-in/out Correction

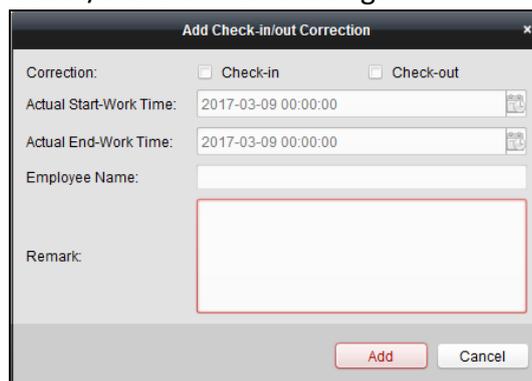
Purpose:

You can add, edit, delete, search the check-in/out correction and generate the related report. You can also export the check-in/out correction details to local PC.

➤ Add Check-in/out Correction

Steps:

1. Click **Check-in/out Correction** tab.
2. Click **Add** to pop up Add Check-in/out Correction dialog.



3. Set the check-in/out correction parameters.
For Check-in Correction: Check **Check-in** checkbox and set the actual start-work time.
For Check-out Correction: Check **Check-out** checkbox and set the actual end-work time.
4. Click **Employee Name** field and select the person.
 You can also input the keyword and click  to search the person you want.
5. (Optional) Input the remark information as desired.
6. Click **Add** to add the check-in/out correction.

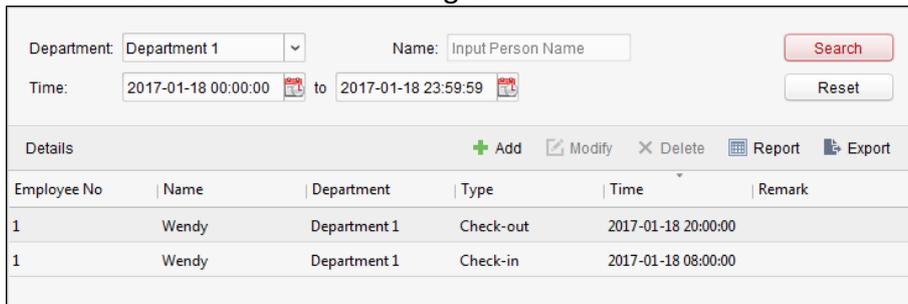
The added check-in/out correction will display on the Attendance Handling interface.
 (Optional) Select the check-in/out correction and click **Modify** to edit the correction.
 (Optional) Select the check-in/out correction and click **Delete** to delete the correction.
 (Optional) Click **Report** to generate the check-in/out correction report.
 (Optional) Click **Export** to export the check-in/out correction details to local PC.

Note: The exported details are saved in *.csv format.

➤ **Search Check-in/out Correction**

Steps:

1. Click **Check-in/out Correction** tab.
2. Set the searching conditions.
Department: Select the department from the drop-down list.
Name: Input the person name.
Time: Click  to set the specified time as time range.
3. Click **Search** to search the check-in/out corrections.
 The check-in/out correction details will display on the list.
 You can also click **Reset** to reset the searching conditions.



| Employee No | Name | Department | Type | Time | Remark |
|-------------|-------|--------------|-----------|---------------------|--------|
| 1 | Wendy | Department 1 | Check-out | 2017-01-18 20:00:00 | |
| 1 | Wendy | Department 1 | Check-in | 2017-01-18 08:00:00 | |

Leave and Business Trip

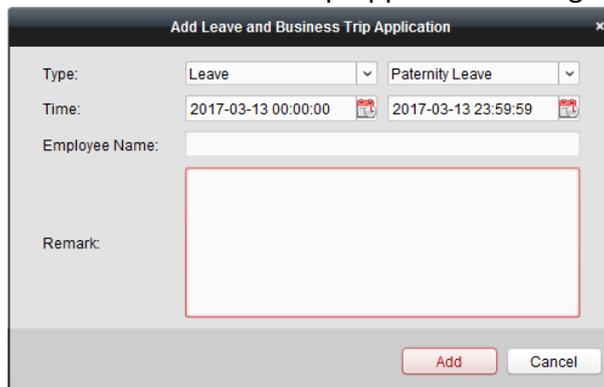
Purpose:

You can add, edit, delete, search the leave and business trip and generate the related report. You can also export the leave and business trip details to local PC.

➤ **Add Leave and Business Trip**

Steps:

1. Click **Leave and Business Trip** tab.
2. Click **Add** to pop up Add Leave and Business Trip Application dialog.



3. Select the leave and business trip type from the Type drop-down list.
You can configure the leave type in Advanced Settings. For details, refer to *Leave Type Settings*.
4. Click  to set the specified time as time range.
5. Click **Employee Name** field and select the person for this application.
You can also input the keyword and click  to search the person you want.
6. (Optional) Input the remark information as desired.
7. Click **Add** to add the leave and business trip.
The added leave and business trip will display on the Attendance Handling interface.
(Optional) Select the leave and business trip and click **Modify** to edit the leave or business trip.
(Optional) Select the leave and business trip and click **Delete** to delete the leave or business trip.
(Optional) Click **Report** to generate the leave or business trip report.
(Optional) Click **Export** to export the leave or business trip details to local PC.
Note: The exported details are saved in *.csv format.

➤ **Search Leave and Business Trip**

Steps:

1. Click **Leave and Business Trip** tab.
2. Set the searching conditions.
Department: Select the department from the drop-down list.
Name: Input the person name.
Time: Click  to set the specified time as time range.
3. Click **Search** to search the leave and business trips.
The leave and business trip details will display on the list.
You can also click **Reset** to reset the searching conditions.

| Department: | Department 1 | Name: | Input Person Name | <input type="button" value="Search"/> | | | |
|---|---------------------|--------------|---------------------|---------------------------------------|---------------------|---------------------|-----|
| Time: | 2017-01-18 00:00:00 | to | 2017-01-18 23:59:59 | <input type="button" value="Reset"/> | | | |
| Details <input type="button" value="+ Add"/> <input type="button" value="Modify"/> <input type="button" value="X Delete"/> <input type="button" value="Report"/> <input type="button" value="Export"/> | | | | | | | |
| Employee No | Name | Department | Type | Reason | Start Time | End Time | Ren |
| 1 | Wendy | Department 1 | Leave | Paternity Leave | 2017-01-18 00:00:00 | 2017-01-18 23:59:59 | |
| 1 | Wendy | Department 1 | Day Off in Lieu | Overtime Exchange Holiday | 2017-01-17 00:00:00 | 2017-01-17 23:59:59 | |

Manual Calculation of Attendance

Purpose:

You can calculate the attendance result manually if needed by specifying the start time and end time.

Steps:

1. Click **Manual Calculation of Attendance** tab.
2. Set the start time and end time for calculation.
3. Click **Calculate** to start.

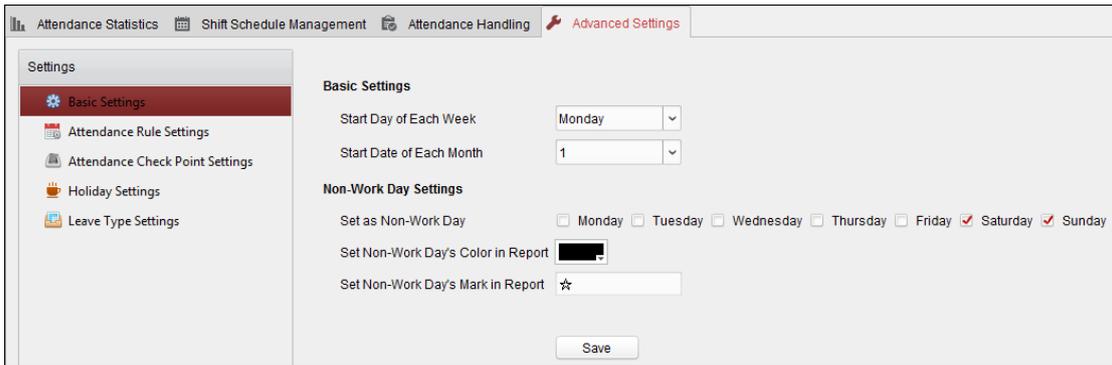
Note: It can only calculate the attendance data within three months.

6.13.3 Advanced Settings

Purpose:

You can configure the basic settings, attendance rule, attendance check point, holiday settings and leave type for attendance.

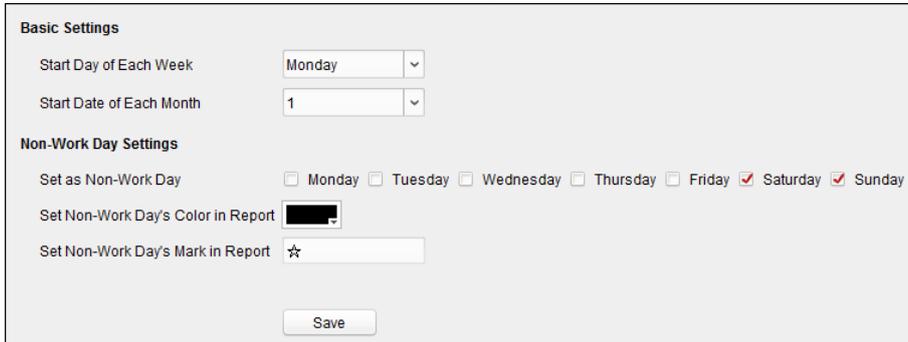
Open Time and Attendance module and click **Advanced Settings** to enter the Advanced Settings interface.



Basic Settings

Steps:

1. Click **Basic Settings** tab to enter the Basic Settings interface.



2. Set the basic settings.
 - Start Day of Each Week:** You can select one day as the start day of each week.
 - Start Date of Each Month:** You can select one day as the start date of each month.
3. Set the non-work day settings.
 - Set as Non-Work Day:** Check the checkbox(es) to set the selected day(s) as non-work day.
 - Set Non-Work Day's Color in Report:** Click the color filed and select the color to mark the non-work day in report.
 - Set Non-Work Day's Mark in Report:** Input the mark as non-work day in report.
4. Click **Save** to save the settings.

Attendance Rule Settings

Steps:

1. Click **Attendance Rule Settings** tab to enter the Attendance Rule Settings interface.

2. Set the attendance or absence settings.
 If employee does not check in when starting work, you can mark as **Absent** or **Late** and set the late time.
 If employee does not check out when ending work, you can mark as **Absent** or **Early Leave** and set the early leave duration.
3. Set the Check-in/out Settings.
 You can check the checkbox of **Check-in Required** or **Check-out Required** and set the valid period.
 You can also set the late rule or early leave rule.
Note: The parameters here will be set as default for the newly added time period. It will not affect the existed one(s).
4. Set the overtime settings.
 You can set the overtime rule and set the maximum overtime for each day.
 (Optional) You can check **Non-scheduled Work Day** checkbox and set the overtime rule for non-work day.
5. Click **Save** to save the settings.

Attendance Check Point Settings

You can set the card reader(s) of the access control point as the attendance check point, so that the card swiping on the card reader(s) will be valid for attendance.

Steps:

1. Click **Attendance Check Point Settings** tab to enter the Attendance Check Point Settings interface.

2. Click  to pop up Add Attendance Check Point dialog.

3. Set the related information.

Check Point Name: Input a name for check point.

Card Reader: Select the card reader from the drop-down list.

Check Point Function: Select the function for check point.

Door Location: Input the door location.

Check Point Description: Set the description information for check point.

4. Click **Add** to add the attendance check point.

The added attendance check point will display on the list.

5. (Optional) Check **Set All Card Readers as Check Points** checkbox.

You can use all the card readers as check points.

Note: If this checkbox is unchecked, only the card readers in the list will be added as attendance check points.

You can also edit or delete the card readers.

Click  to edit the card reader.

Click  to delete the card reader.

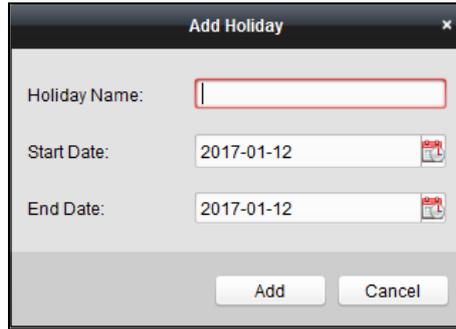
Holiday Settings

Steps:

1. Click **Holiday Settings** tab to enter the Holiday Settings interface.

| Holiday Name | Start Date | End Date | Holiday Days |
|--------------|------------|------------|--------------|
| Christmas | 2016-12-22 | 2016-12-30 | 9 |

2. Click  to pop up Add Holiday dialog.



3. Set the related parameters.

Holiday Name: Input the name for the holiday.

Start Date / End Date: Click to specify the holiday date.

4. Click **Add** to add the holiday.

The added holiday will display on the list.

You can also edit or delete the holiday.

Click to edit the holiday.

Click to delete the holiday.

Leave Type Settings

Purpose

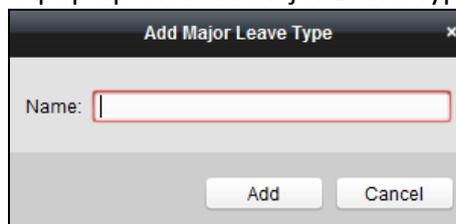
Steps:

1. Click **Leave Type Settings** tab to enter the Leave Type Settings interface.

| Leave | Minor Type |
|--------------------|------------------------|
| | Index Type |
| Day Off in Lieu | 1 Paternity Leave |
| Go Out on Business | 2 Parental Leave |
| | 3 Sick Leave |
| | 4 Family Reunion Leave |
| | 5 Annual Leave |
| | 6 Maternity Leave |
| | 7 Personal Leave |
| | 8 Bereavement Leave |

2. Add the major leave type.

1) Click on the left panel to pop up the Add Major Leave Type dialog.



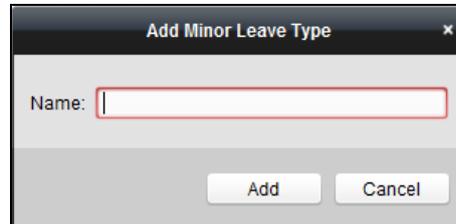
2) Input the name for major leave type.

3) Click **Add** to add the major leave type.

You can also edit or delete the major leave type.

Click to edit the major leave type.

- Click **X** to delete the major leave type.
3. Add the minor leave type.
 - 1) Select the major leave type.
The minor leave type belonging to this major leave type will display on the right panel.
 - 2) Click **+** on the right panel to pop up the Add Minor Leave Type dialog.



- 3) Input the name for minor leave type.
 - 4) Click **Add** to add the minor leave type.
- You can also edit or delete the major leave type.
- Click **E** to edit the minor leave type.
- Click **X** to delete the minor leave type.

6.13.4 Attendance Statistics

Purpose:

After calculating attendance data, you can check the attendance summary, attendance details, abnormal attendance, overtime, card swiping logs and reports based on the calculated attendance data.

Notes:

- The client automatically calculates the previous day's attendance data at 1:00 am on the next day.
- Keep the client running at 1:00 am or it cannot calculate the previous day's attendance data automatically. If not calculated automatically, you can calculate the attendance data manually. For details, refer to *Manual Calculation of Attendance* in Chapter 6.13.2 Attendance Handling.

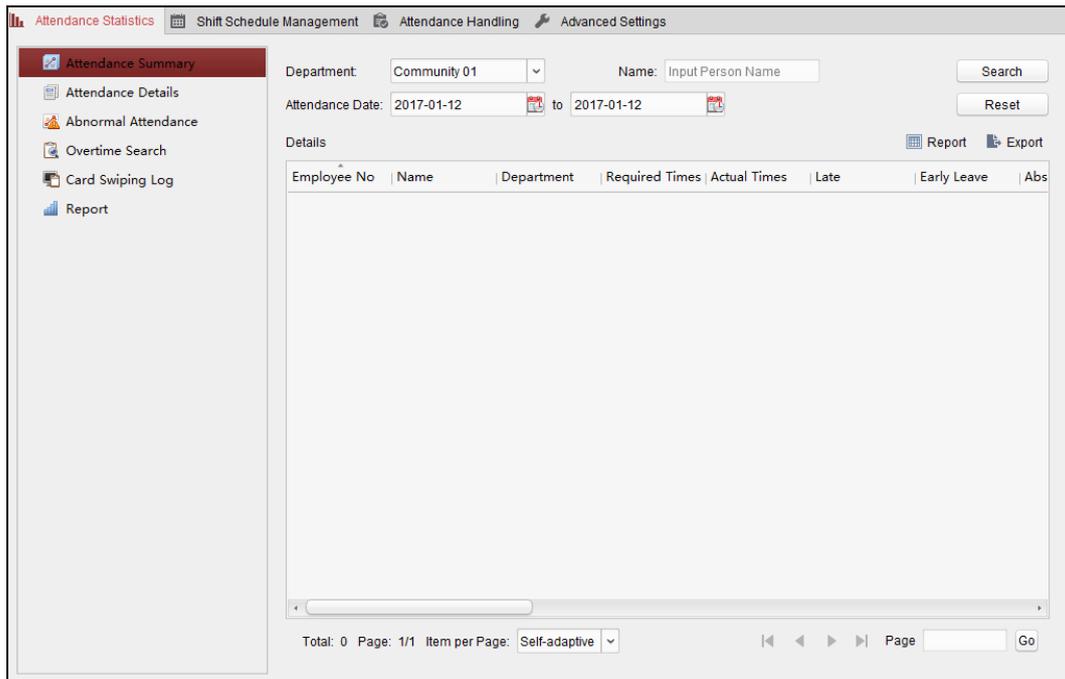
Attendance Summary

Purpose:

You can get all the attendance information statistics of the employees in the specified time period.

Steps:

1. In the Time and Attendance module, click **Attendance Statistics** tab to enter the Attendance Statistics page.
2. Click **Attendance Summary** item on the left panel to enter the Attendance Summary interface.

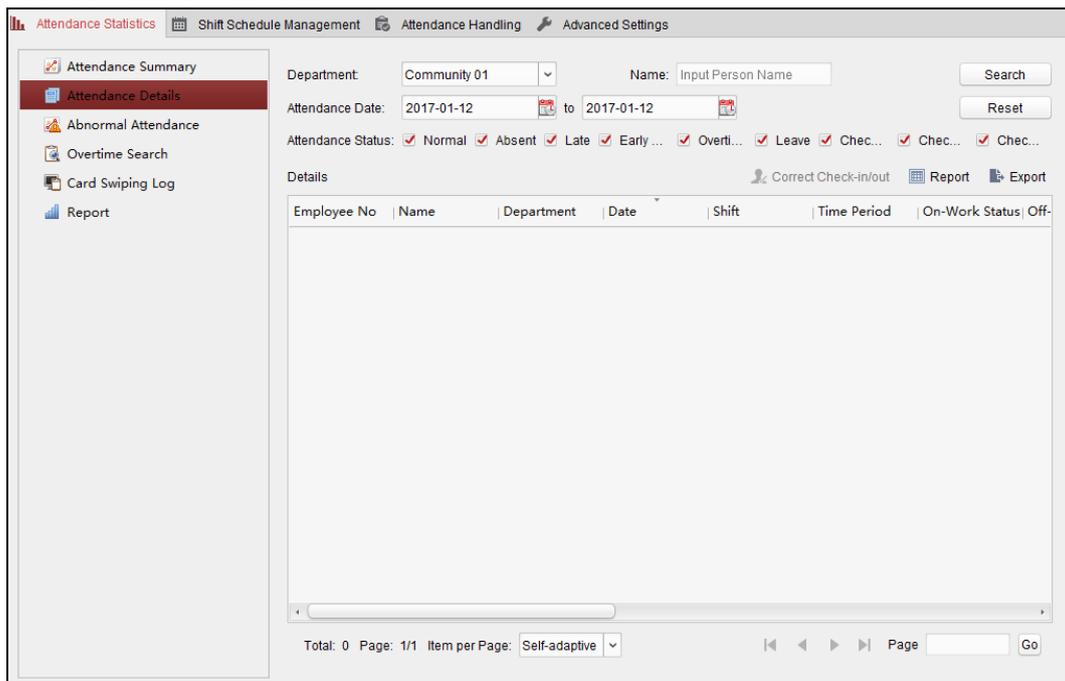


3. Set the search conditions, including department, employee name and attendance date.
(Optional) You can click **Reset** to reset all the configured search conditions.
4. Click **Search** to start searching and the matched results will list on this page.
(Optional) Click **Report** to generate the attendance report.
(Optional) Click **Export** to export the results to the local PC.

Attendance Details

Steps:

1. In the Attendance Statistics page, click **Attendance Details** item on the left panel to enter the Attendance Details interface.



2. Set the search conditions, including department, employee name, attendance date and status.
(Optional) You can click **Reset** to reset all the configured search conditions.
3. Click **Search** to start searching and the matched results will list on this page.
(Optional) You can select a result item in the list and click **Correct Check-in/out** to correct the check-in or check-out status.
(Optional) Click **Report** to generate the attendance report.
(Optional) Click **Export** to export the results to the local PC.

Abnormal Attendance

You can search and get the statistics of the abnormal attendance data, including No., name and department of the employees, abnormal type, start/end time and date of attendance.

Overtime Search

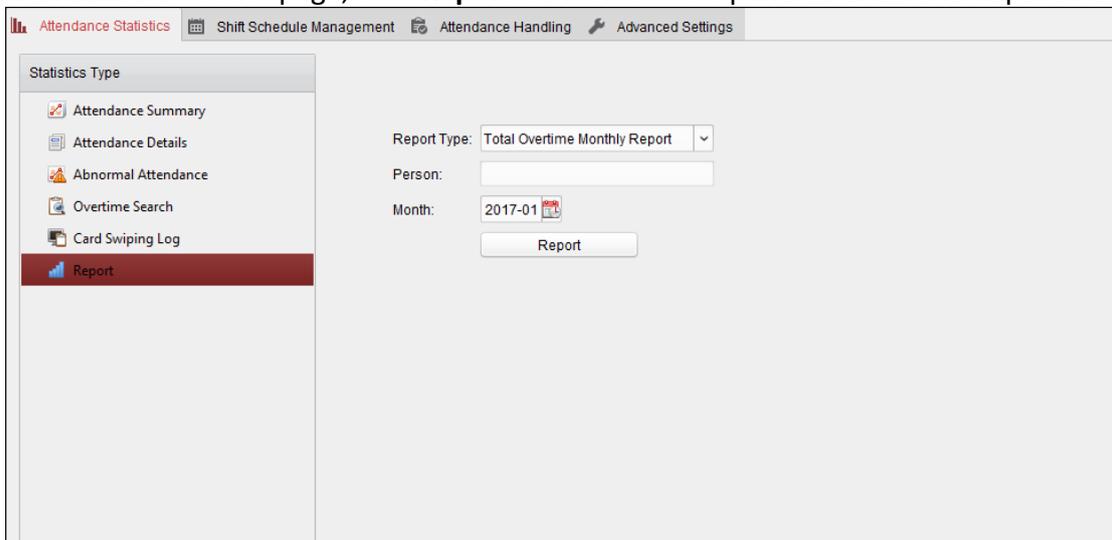
You can search and get the overtime status statistics of the selected employee in the specified time period. And you can check the detailed overtime information, including No., name and department of the employees, attendance date, overtime duration and overtime type.

Card Swiping Log

You can search the card swiping logs used for the attendance statistics. After searching the logs, you can check the card swiping details, including name and department of the employees, card swiping time, card reader authentication mode and card No.

Report

In the Attendance Statistics page, click **Report** item on the left panel to enter the Report interface.



➤ Generating Total Overtime Monthly Report

Steps:

1. Click in the Report Type field to unfold the drop-down list and select **Total Overtime Monthly Report** as the report type.

2. Click **Person** field to select the person.
3. Click  to specify a month.
4. Click **Report** to start generating the matched total overtime monthly report.

➤ **Generating Overtime Details Monthly Report**

Select **Overtime Details Monthly Report** as the report type. You can generate overtime details monthly report. For detailed operations, refer to *Generating Total Overtime Monthly Report*.

➤ **Generating Attendance Monthly Report**

Select **Attendance Monthly Report** as the report type. You can generate attendance monthly report. For detailed operations, refer to *Generating Total Overtime Monthly Report*.

➤ **Generating Start/End-Work Time Report**

Steps:

1. Click  in the report type field to unfold the drop-down list and select **Start/End-Work Time Report** as the report type.

2. Click **Department** field to select the department.
3. Click  to specify the start date and end date of a date period.
4. Click **Report** to start generating the matched total overtime monthly report.

➤ **Generating Department Attendance Report**

Set the report type as **Department Attendance Report** and you can generate department attendance report. For detailed operations, refer to *Generating Start/End-Work Time Report* above.

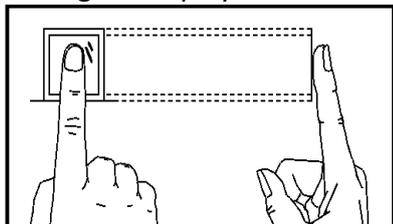
Appendix A Tips for Scanning Fingerprint

Recommended Finger

Forefinger, middle finger or the third finger.

Correct Scanning

The figure displayed below is the correct way to scan your finger:

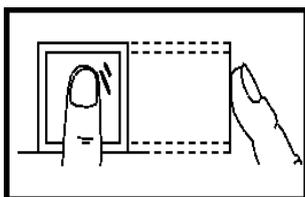


You should press your finger on the scanner horizontally. The center of your scanned finger should align with the scanner center.

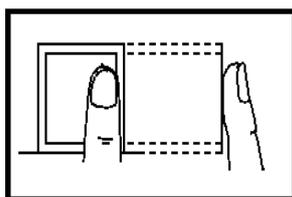
Incorrect Scanning

The figures of scanning fingerprint displayed below are wrong:

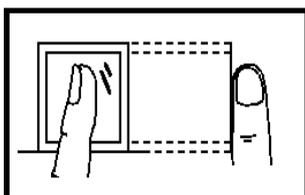
Vertical



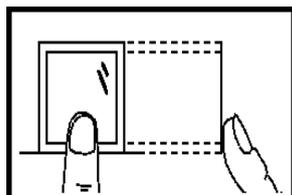
Edge I



Side



Edge II



Environment

The scanner should avoid direct high light, high temperature, humid conditions and rain.

When it is dry, the scanner may not recognize your fingerprint successfully. You can blow your finger and scan again after drying the finger.

Others

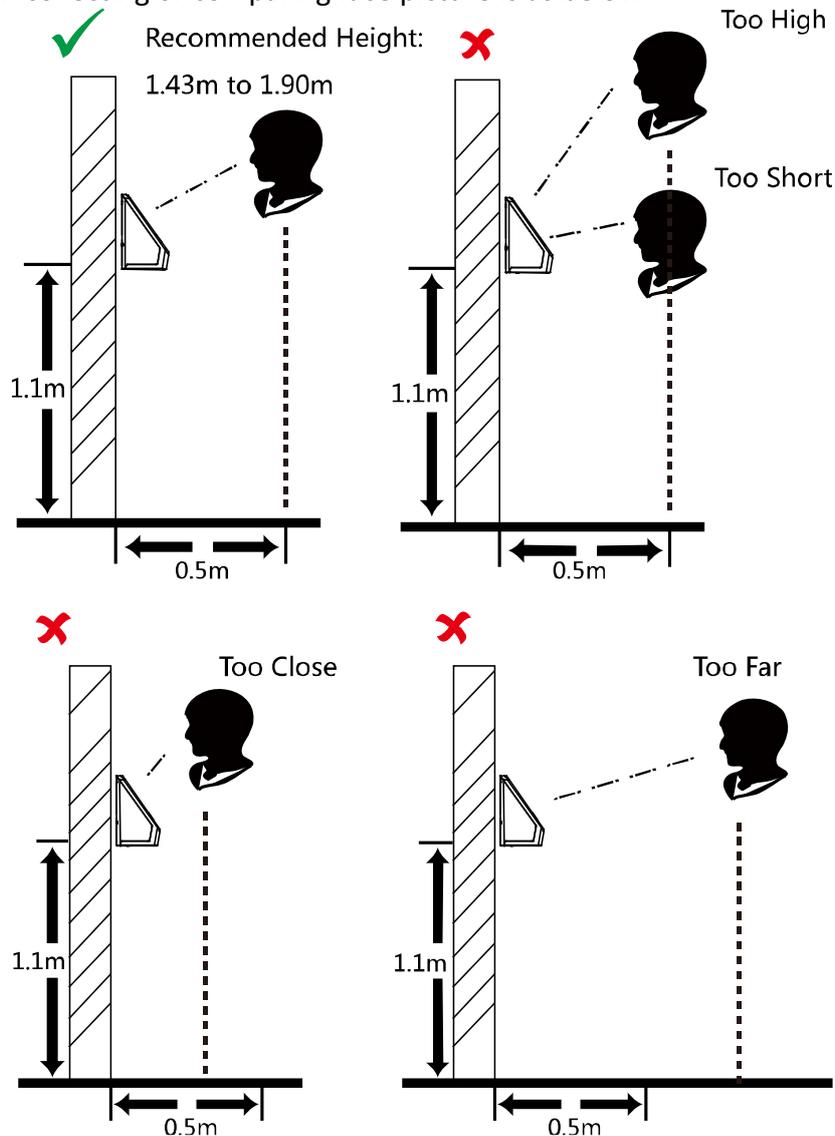
If your fingerprint is shallow, or it is hard to scan your fingerprint, we recommend you to use other authentication methods.

If you have injuries on the scanned finger, the scanner may not recognize. You can change another finger and try again.

Appendix B Tips When Collecting/Comparing Face Picture

B.1 Positions (Recommended Distance:0.5m)

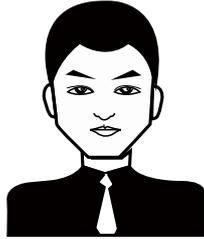
The position when collecting or comparing face picture is as below:



Note: For details about the relationship among person height, device height, and the distance between the person and the device, see Appendix C.

B.2 Expression

- Keep your expression naturally when collecting or comparing face pictures, just like the expression in the picture below.



- Do not wear hat, sunglasses, or other accessories that can affect the facial recognition function.
- Do not make your hair cover your eyes, ears, etc. and heavy makeup is not allowed.

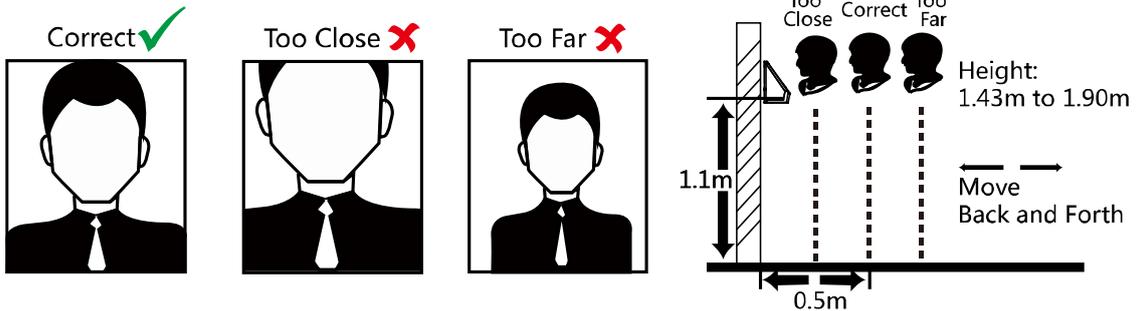
B.3 Posture

In order to get a good quality and accurate face picture, position your face looking at the camera when collecting or comparing face pictures.



B.4 Size

Make sure your face is in the middle of the collecting window.



Appendix C Relationship between Device Height, Person Height, and Standing Distance

| Device Height (m) | Person Height (m) | 0.3 | 0.5 | 0.8 | Height Range (Min~Max) |
|-------------------|-------------------|-----------|-----------|-----------|------------------------|
| 1 | | 1.31~1.52 | 1.33~1.80 | 1.39~1.99 | 1.31~1.99 |
| 1.1 (Recommended) | | 1.41~1.62 | 1.43~1.90 | 1.49~2.09 | 1.41~2.09 |
| 1.2 | | 1.51~1.72 | 1.52~2.11 | 1.56~2.20 | 1.51~2.20 |

Appendix D Tips for Installation Environment

1. Light Source Illumination Reference Value



Candel: 10Lux

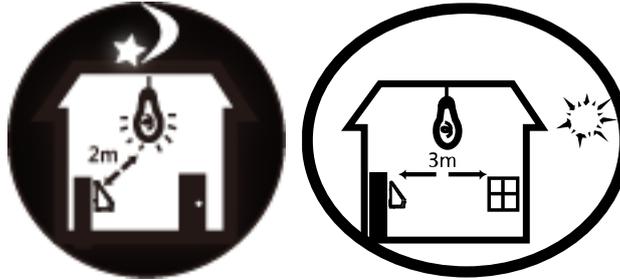


Bulb: 100~850Lux

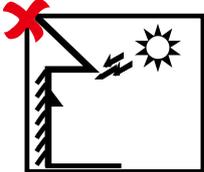


Sunlight: More than 1200Lux

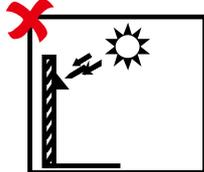
2. Install the device indoors, at least 2 meters away from the light, and at least 3 meters away from the window or door.



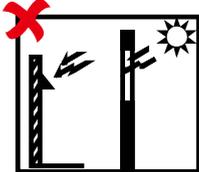
3. Avoid backlight, direct and indirect sunlight.



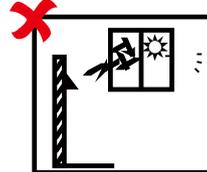
Backlight



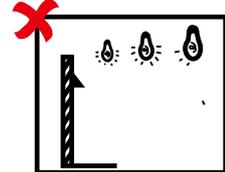
Direct Sunlight



Direct Sunlight
through Window

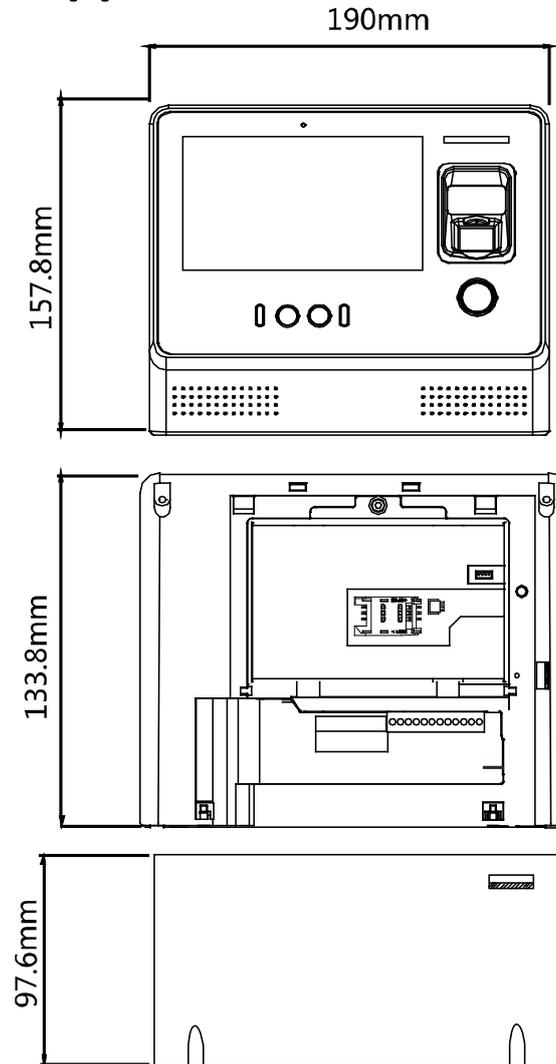


Indirect Sunlight
through Window



Close to Light

Appendix E Dimension



01000001080619



See Far, Go Further